Preliminary & Detailed Contamination Assessment

178 Lang Street, Kurri Kurri, NSW

NEW22P-0213-AA 21 December 2022



**GEOTECHNICAL I LABORATORY I EARTHWORKS I QUARRY I CONSTRUCTION MATERIAL TESTING** 

# Document control record

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# **Executive Summary**

Qualtest Laboratory NSW Pty Ltd (Qualtest) has carried out a Preliminary & Detailed Contamination Assessment for Votraint No 124 Pty Ltd ATF The Christian Family Trust for a site located at 178 Lang Street, Kurri Kurri, NSW (the site).

The site is approximately 0.66ha in area, and comprises Lot 136 DP869710. The development includes demolition of an existing shopping centre building, construction of a new Woolworths building with associated car parking and services, and extension of an existing laneway from the central northern boundary around the north-western corner and down to the southwestern corner.

The objectives of the works were to:

- Assess former and current site uses or activities, that have the potential to cause contamination;
- Assess the location and extent of potential soil contamination on the site (if any); and,
- Provide recommendations on the need for further assessment, management and/or remediation (if required).

In order to achieve the above objectives, Qualtest carried out the following scope:

- Desktop and site history assessment;
- Collection of soil samples from 16 borehole locations;
- Laboratory analysis of selected soil samples from a suite of common contaminants; and
- Data assessment and preparation of a Preliminary and Detailed Contamination Assessment Report.

The site history review showed the western portion of the site has been used for commercial purposes, including a theatre and retail shops, likely since the 1920s. The eastern portion of the site was used for residential purposes, since at least the 1940s, with multiple dwellings and associated sheds. The dwellings were progressively removed and replaced with an asphalt paved car park between 1990s and early 2000s. The site currently comprises a shopping centre (Kingsway Plaza) and associated asphalt paved car park.

Three Areas of Environmental Concern (AECs) were identified based on the site history and site observations:

- 1. Current and former buildings: Weathering of potentially hazardous materials (asbestos, lead paint, galvanised metals); Potential use of pesticides around buildings; Demolition waste
- 2. Imported Fill: Potential use of contaminated imported fill;
- 3. Historical car park pavements: Potential use of coal tar to construct pavements in the past.

To provide an assessment of potential soil contamination, 16 soil sampling locations were carried out across the site. This sampling density was in accordance with the minimum recommended by NSW EPA (2022) Sampling Design Part 1 – Application, Contaminated Land Guidelines.

The laboratory results reported concentrations of contaminants below the adopted criteria and no asbestos was detected in soil samples. Chrysotile asbestos was detected in a fragment of fibre-cement material collected from BH10 at 0.4-0.5m depth. The fragment was about 60mm x 50mm x 5mm and was not able to be crushed by hand pressure. No phenols were detected in the sample of older asphalt tested, and no odours were observed, indicating that coal tar was not present.

BH10 was located in the eastern portion of the site, within an area previously containing residential dwellings and sheds. It is possible that fragments of asbestos containing materials (ACM) are present in other locations on the site, particularly in the area of the former dwellings and associated sheds. As the site is currently paved with asphalt and concrete, the ACM does not currently pose a risk to site users. The ACM could pose a risk to future construction workers, and ACM will need to be managed during earthworks and construction of the proposed development.

Based on the preliminary and detailed assessment completed, it is considered that the site is suitable for the proposed shopping centre development (commercial/industrial purposes), provided the following recommendations are implemented:

- Preparation of an Asbestos Management and Removal Plan to be implemented during earthworks and construction of the proposed development. The plan should outline how ACM will be assessed and identified prior to earthworks commencing on the site, and the procedures for the handling and removal of ACM (including soils containing asbestos). Care must be taken to prevent spreading ACM onto other areas of the site;
- Preparation of an Unexpected Finds Procedure to manage potential unexpected finds of contamination during earthworks and construction for the proposed development.
- The Asbestos Management and Removal Plan and Unexpected Finds Procedure could form part of the Construction Environmental Management Plan, to be prepared by the site owner/manager, or contractor.

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013). The reports comprises a Stage 1 and 2 assessment in accordance with SEPP (Resilience and Hazards) 2021, Chapter 4.

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# 1.0 Introduction

Qualtest Laboratory NSW Pty Ltd (Qualtest) has carried out a Preliminary & Detailed Contamination Assessment for Votraint No 124 Pty Ltd ATF The Christian Family Trust for a site located at 178 Lang Street, Kurri Kurri, NSW (the site). Figure 1, Appendix A, shows the site location.

The site is approximately 0.66ha in area, and comprises Lot 136 DP869710. The development includes demolition of an existing shopping centre building, construction of a new Woolworths building with associated car parking and services, and extension of an existing laneway from the central northern boundary around the north-western corner and down to the southwestern corner.

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013). The report comprises a Stage 1 and Stage 2 assessment in accordance with SEPP (Resilience and Hazards) 2021, Chapter 4.

### 1.1 Objectives

The objectives of the works were to:

- Assess former and current site uses or activities, that have the potential to cause contamination;
- Assess the location and extent of potential soil contamination on the site (if any); and,
- Provide recommendations on the need for further assessment, management and/or remediation (if required).

#### 1.2 Scope of Works

In order to achieve the above objectives, Qualtest carried out the following scope:

- Desktop and site history assessment;
- Collection of soil samples from 16 borehole locations;
- Laboratory analysis of selected soil samples from a suite of common contaminants; and
- Data assessment and preparation of a Preliminary and Detailed Contamination Assessment Report.

# 2.0 Site Description

### 2.1 Site Identification

General site information is provided below in Table 2.1. The site location is shown in Figure 1, Appendix A.

Site Address:	178 Lang Street, Kurri Kurri, NSW	
Approximate site area and dimensions:	Approx. 0.66 ha Approx. 93m long by 65m wide at its widest and longest points.	
Title Identification Details:	Lot 136 DP869710, within the Cessnock local government area, Parish of Heddon, County of Northumberland.	
Current Zoning	B2 Local Centre	
Current Ownership:	George Vrachliotis, Maria Vrachliotis, and Votraint No 124 Pty Limited	
Current Occupier and Land Use:	Kings Plaza Shopping Centre	
Previous Landuse:	Commercial land use – shopping centre and carpark, and theatre	
Proposed Landuse:	Commercial Development – Woolworths supermarket and carpark	
Adjoining Site Uses:	Commercial and residential properties to the north, east, south and west:	
	<ul> <li>Multiple commercial snopping retailers to the north;</li> <li>A fast-food outlet to the east;</li> <li>Residential and commercial properties to the south; and,</li> <li>The Kurri Kurri Hotel to the east.</li> </ul>	
Site Coordinates for approx. centre of site:	32°81'87.02 S 151°48'20.79 E	

Table	2.1:	Summarv	of Site	Details
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## 2.2 Topography and Drainage

Reference to the NSW Land and Property Information Spatial Information Exchange website (<u>https://six.nsw.gov.au/wps/portal/</u>) indicated the elevation of the site was approximately 50m AHD.

During the site investigation the site was observed to be located on the side of hill, with a moderate slope to the south to south-east. The ground surface consisted of an asphalt carpark in the eastern portion of the site and a commercial shopping complex to the west.

Rain falling on the site would be expected to infiltrate into the site surface. Excess surface water is expected to flow into stormwater drains onsite, and subsequently into municipal stormwater drains. It is expected that the municipal stormwater system discharges into Swamp Creek approximately 1.8km north west of the site.

### 2.3 Regional Geology

Reference to the 1:100,000 Newcastle-Hunter Coastal Quaternary Geology map indicates that the site is underlain by Permian aged Dalwood Group formation comprising "sandstone, lithic sandstone, conglomerate, siltstone, basalt".

#### 2.4 Hydrogeology

Groundwater beneath the site is anticipated to be present in a semi-confined aquifer within residual and/or weathered rock. Groundwater is expected to be greater than 5m below ground surface (bgs). Groundwater flow direction is anticipated to follow the surface topography and flow to the west and discharge into Swamp Creek located approximately 1.8km north west of the site.

It should be noted that groundwater conditions can vary due to rainfall and other influences including regional groundwater flow, temperature, permeability, recharge areas, surface condition, and subsoil drainage.

A search of the NSW Department of Primary Industries (Office of Water) registered groundwater bores located within a 500m radius of the site was undertaken. The search revealed that there were no bores within this radius. A copy of the search is provided in Appendix B.

### 2.5 Acid Sulfate Soils

Reference to the Acid Sulfate Soil online database from State of NSW and Department of Planning, Industry and Environment, 2021 (espade.environment.nsw.gov.au) the site is located in an area of 'no known occurrence' of acid sulfate soils.

## 3.0 Site History Review

A site history review was undertaken as part of the PCA, and included:

- A review of historical ownership of the site;
- A review of aerial photography from the past 70 years;
- A review of Section 10.7 Certificate from Cessnock City Council;
- A review of publicly available information;
- Search of the NSW EPA's list of contaminated sites applying to the site and nearby properties; and
- A site walkover to help identify current and previous activities carried out on the site, identify surrounding land uses, and assess Areas of Environmental Concern (AECs) and Chemicals of Potential Concern (COPCs).

The information provided from the above reviews is summarised in the sections below.

#### 3.1 Historical Titles Search

A search of historical titles for Lot 136 DP869710 was undertaken by Advanced Legal Searchers Pty Ltd.

A list of past registered proprietors for the site dating back to 1924, was obtained. Prior to 1997, the site was comprised of 12 separate allotments. The results of the search are included in Appendix C. A summary of ownership is presented below in Tables 3.1.1 to 3.1.9.

Table 3.1.1 Current Consolidated Lot (Lot 136 DP 869710)

Date	Owners	Inferred Use
2003 to to date	People from Vrachliotis family Votraint No 124 Pty Limited G & M Musumeci Pty Limited	Commercial
1997 to 2001	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial

#### Table 3.1.2 Former Lot 21 DP544418, North-East Corner of Site

Date	Owners	Inferred Use
1989 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1985 to 1989	Marnal Pty Limited	Commercial
1971 to 1985	A trainee mechanical engineer and his wife	Commercial
1955 to 1971	A café proprietor and his wife Café proprietor's widow With lease to solicitors 1969 to 1970	Commercial
1953 to 1955	Wife of a loco cleaner	Commercial
1950 to 1953	Storekeeper	Commercial
1948 to 1950	A miner, wife of a shop assistant, and wife of an electrician	Commercial
1926 to 1948	Fruiterer	Commercial

#### Table 3.1.3 Former Lot 22 DP544418, North-East Corner of Site

Date	Owners	Inferred Use
1989 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1971 to 1992	Solicitor and article clerk	Commercial

Date	Owners	Inferred Use
Jul 1971 to Nov 1971	Vincent St Holdings Pty Ltd	Commercial
Jan 1971 to Jul 1971	J Coddington Pty Ltd	Commercial
1955 to 1971	A café proprietor and his wife Café proprietor's widow With lease to solicitors 1969 to 1970	Commercial
1953 to 1955	Wife of a loco cleaner	Commercial
1950 to 1953	Storekeeper	Commercial
1948 to 1950	A miner, wife of a shop assistant, and wife of an electrician	Commercial
1926 to 1948	Fruiterer	Commercial

#### Table 3.1.4 Former Lots 1 and 2 DP702372, Western Portion of Site

Date	Owners	Inferred Use
1989 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1985 to 1989	Marnal Pty Limited	Commercial
1984 to 1985	Sanrij Pty Limited	Commercial
1975 to 1984	The Council of the City of Greater Cessnock	Commercial
1970 1975	Woolworths Properties Limited	Commercial
1926 to 1970	Kurri Kurri and South Maitland Amusement Company Limited	Commercial
1918/1924 to 1926	A showman Lease to Greater Union Theatres Pty Ltd 1931 to 1971	Commercial

Date	Owners	Inferred Use
1991 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1986 to 1991	Marnal Pty Limited	Commercial
1980 to 1986	Driveway attendant	Residential
1962 to 1980	A tester and his wife Tester's widow	Residential
1955 to 1962	Departmental manager and his wife	Residential
1903 to 1949	Miner and his wife	Residential

Table 3.1.5 Former Lot 10 Section 20 DP758590, South-East Corner of Site

Table 3.1.6 Former Lot 1	Section 20 DP758590	South-East Portion of Site
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Date	Owners	Inferred Use
1995 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd Gartrom Pty Ltd	Commercial
1992 to 1995	Gartrom Pty Ltd	Commercial
1947 to 1992	Brick layer and his wife Brick layer's widow	Residential
1913 to 1947	Dentist	Residential
1903 to 1947	Miner	Residential

#### Table 3.1.7 Former Lot 131 DP823720, Central-Southern Portion of Site

Date	Owners	Inferred Use
1994 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd Gartrom Pty Ltd	Commercial
1989 to 1994	Gartrom Pty Ltd	Commercial
1988 to 1989	Private individuals, no occupation listed	Residential
1944 to 1988	Garage proprietor	Residential

Date	Owners	Inferred Use
1918 to 1944	Engine driver	Residential
1913 to 1918	Miner	Residential
1904 to 1913	Spinster	Residential

#### Table 3.1.8 Former Lot 133 DP823720, Central-Southern Portion of Site

Date	Owners	Inferred Use
1992 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1990 to 1992	Marnal Pty Ltd	Commercial
1952 to 1990	Butcher and his wife	Residential
1948 to 1952	Poultry farmer, became a weaver	Residential
1938 to 1948	Haulage driver and his wife Haulage drivers widow	Residential
1927 to 1938	Deputy and his wife	Residential
1922 to 1927	Clerk	Residential

#### Table 3.1.9 Former Lot 134 DP823720, Central Portion of Site

Date	Owners	Inferred Use
1997 to 1997	A butcher, pharmacist, business proprietor and their wives Vicbar (Kingsway Plaza) Pty Ltd	Commercial
1975 to 1997	Council of the City of Greater Cessnock	Commercial
1970 to 1975	Woolworths Properties Limited	Commercial
1926 to 1970	Kurri Kurri and South Maitland Amusement Company Limited	Commercial
1918 to 1926	A showman	Commercial
1915 to 1918	Hotel keeper	Commercial
1908 to 1915	Methodist minister	Commercial

The historical title search indicated that the western and north-western portions of the site have been used for commercial purposes since being granted in the early 1900s. The southern and

south-eastern portions of the site appear to have been used for residential purposes, and then commercial use in the late 1980s to early 1900s.

It is noted that one owner was a garage proprietor. The allotment they owned appears to be vacant land, with the exception of two small sheds, in the aerial photographs for the period of time the garage proprietor owned it (1944 to 1988).

### 3.2 Aerial Photograph Review

Aerial photographs of the site from 1944, 1954, 1966, 1976, 1987 and 1993 were obtained from NSW Government spatial Services

(https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/), and satellite images from Google Earth for 2004, 2010 and 2022, were assessed by a Qualtest Environmental Scientist. The results of the aerial photograph review are summarised below in Table 3.2. The aerial photographs are presented in Appendix D.

Year	Site	Surrounding Land
1944	The site comprises multiple allotments, which are fenced.	The surrounding land comprises residential and commercial properties.
	A large building is present covering most of the western portion of the site.	
	A small building fronts Lang St, with the Council laneway behind it, in the northern portion of the site.	
	The lot next to the large building is mostly vacant, with the exception of a small building in the north, immediately adjacent to the large building.	
	The remainder of the site contains three residential dwellings with associated sheds.	
1954	The site is similar to the 1944 aerial photograph. There appears to be an additional dwelling in the central- southern portion of the site.	The surrounding land is similar to the 1944 aerial photograph.
	The quality of the image makes it difficult to distinguish features.	
1966	The site remains similar to the previous aerial photograph.	The surrounding land is similar to the previous aerial photographs.
	Two of the dwellings appear to have been extended towards the north, and some additional sheds constructed.	

Table 3.2: Aerial Photograph Review

Year	Site	Surrounding Land
1976	The large building on the western portion of the site has been removed. The land is vacant with some cars parked in the northern portion.	The surrounding land is similar to the previous aerial photographs.
	The remainder of the site appears similar to the 1966 aerial photograph.	
1987	A large building has been constructed in the western portion of the site. Some cars are parked to the east of the large building, it is difficult to distinguish if the car park is paved with asphalt or concrete.	The surrounding land is similar to the previous photograph.
	The remainder of the site is similar to the previous photographs.	
	The quality of the image makes it difficult to distinguish features.	
1993	A residence has been removed, and the car park to the east of the large building has been extended to the east, and is asphalt paved.	The surrounding land is similar to the previous photograph.
	The remainder of the site is similar to the previous 1987 photograph.	
2004	The large building in the western portion has been extended to the east.	The surrounding land is similar to the previous photograph. There appears to be an increase in housing density and
	Two residences and associated sheds have been removed, and the car park to the east of the large building has been extended to the east.	commercial shops.
	The remainder of the site is similar to the previous 1993 photograph.	
2010	The site is similar to the previous photograph.	The surrounding land is similar to the previous photograph.
		A fast-food outlet appears to the north east of the site. Land to the south-east has been cleared.

Year	Site	Surrounding Land
2022	The site is similar to the previous photograph.	The surrounding land is similar to the previous photograph.
		A large commercial building and carpark have been constructed to the south- east.

#### 3.3 Site Observations

A Qualtest Environmental Scientist visited the site on 5 December 2022. Selected site photographs are presented in Appendix E. A summary of the site features is outlined below:

- A large building was present in the western portion of the site. The building was constructed on a concrete slab, with a mixture of brick/concrete walls, metal framework and corrugated iron roof (see Photograph 1 to 5). A plaque on the building indicated the Kingsway Plaza was officially opened on 22 April 1985, and was designed and built by Geoff Williams for Marnal Pty Limited (see Photograph 6);
- The building appeared to be tenanted by multiple commercial retailers including a pharmacy, hair salon, café, vet, computer repairs, and miscellaneous goods. A number of the shops were vacant, including shops that had been an IGA, a post office, and a nail salon;
- A carpark was present to the east of the main building, with an asphalt pavement. The asphalt was observed to be in good condition with no major cracking and/or staining (see Photographs 7 to 8);
- A residential dwelling was observed in the south eastern corner of the site, and a fence separated the dwelling from the car park. The dwelling was tenanted and not accessed during the site walkover;
- A Council owned laneway ran along the northern boundary of the south-east portion of the site, and then in a north-south direction between the large building and the car park. The laneway does not comprise part of the site.

### 3.4 NSW EPA Records & Environment Protection Licenses

#### **Contaminated Land Records**

A search of the NSW EPA database of notices issued under the Contaminated Land Management Act, 1997 (CLM Act) revealed there was one property:

• United Petroleum Service Station, 279-281 Lang Street – located 1.2km south of the site.

A search of sites that have been notified to NSW EPA as contaminated (as of 10 October 2022) was also carried out. The search identified two properties within the Kurri Kurri suburb which had been notified to the NSW EPA as being contaminated. These properties were:

- United Petroleum Service Station, 279-281 Lang Street located 480m south west of the site. Contamination formerly regulated under the CLM Act; and
- Kurri Kurri Smelter, Hart Road located about 3km north of the site. Regulation under the CLM not required.

The one property that NSW EPA considered required regulation under the CLM Act was located at least 500m of the site. The NSW EPA assessed that the other site did not require regulation under the CLM Act. Given the distances from the site to the notified contaminated sites, it is considered that contamination on the properties would not impact the site.

A copy of the above searches is provided in Appendix F.

#### Environment Protection Licenses (EPLs)

The Protection of the Environment Operations (POEO) register under Section 308 of the POEO Act 1997, was searched for Environment Protection Licenses (EPLs) for the suburb of Kurri Kurri, NSW. The search revealed six current and/or former EPLs:

Company Name (License Status)	Address	Approx. Distance & Direction from Site	Licensed Activity
Central Waste Plant Pty Ltd (Issued)	8 Styles Street	1.8km north- west, down- gradient	Waste storage – other types of waste Recovery of general waste
Cleanaway Co Pty Ltd (Surrendered)	126 Mitchell Ave	1.1km north- west, down- gradient	Waste storage – hazardous, restricted solid, liquid, clinical and related waste, and asbestos waste
Hunter and New England Area Health Service (No Ionger in force)	Lang Street	1.7km south- east, down- gradient	Hazardous, Industrial or Group A waste general or storage
Hunter Water Corporation (Issued)	Off McLeod Road	1.6km north- east, cross to down-gradient	Sewage treatment processing by small plants
Nationwide Oil Pty Ltd (Surrendered)	47 Wermol Street	1km north west, down-gradient	Hazardous, Industrial or Group A waste general or storage
Weston Aluminium Pty Ltd (Issued)	129 Mitchell Avenue	1.5km north- west, down- gradient	Scrap metal processing Recovery of hazardous and other waste Waste storage – hazardous, restricted solid, liquid, clinical and related waste, and asbestos waste Thermal treatment of hazardous and other waste Thermal treatment of general waste Aluminium production (scrap metal)

Taking into account the distances to the site and/or the gradient to the site, it is considered unlikely that contamination from the properties (if any) would impact the site.

A copy of the above searches is provided in Appendix F.

#### NSW EPA PFAS Investigation Program

Based on a review of the NSW EPA Government PFAS Investigation Program (<u>ref:</u> <u>https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program</u>), there are no properties in the suburb of Kurri Kurri that have been identified as a site that is likely to have used large quantities of PFAS.

#### NSW EPA Former Gasworks Sites

Based on a review of the NSW EPA website <u>(ref: https://www.epa.nsw.gov.au/your-environment/contaminated-land/other-contamination-issues/former-gasworks-sites</u>), no former gasworks have been identified in the suburb of Kurri Kurri.

#### 3.5 Anecdotal and Publicly Available Information

A search of publicly available information identified that the western portion of the site previously contained the Kings Theatre. Photographs are presented below. No information on when the Kings Theatre opened was available, but based on the architecture it appears to be early 1900s.



Photo 1 – Showing the Kings Theatre and Hotel, undated photograph. https://www.flickr.com/photos/98887654@N05/9426867526



Photo 2 – Showing Kings Theatre in 1970 <u>https://www.phototimetunnel.com/product/kurri-kurri-picture-theatre-1970-tif</u>

No interview was held. Based on the information obtained via historical titles, aerial photographs and publicly available information, it is considered that the absence of an interview does not affect the outcome of the assessment.

#### 3.6 Section 10.7 Certificate

A Section 10.7 Certificate for the site was obtained from Cessnock City Council, and is presented in Appendix G. Relevant information is summarised below:

"Matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate":

- (a) The land or part of the land is not significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (b) The land is not subject to a management order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (c) The land is not the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (d) The land is not the subject of an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (e) The land is not the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 (if a copy of such a statement has been provided at any time) to the local authority issuing the certificate.

### 3.7 **Previous Reports**

Qualtest has not been provided with, or been made aware of any previous contamination assessments conducted on the site.

#### 3.8 Summary of Site History

The assessed uses of the site, based on the site history review, have been summarised below in approximate chronological order:

- The site was originally twelve separate lots, which can generally be split into two areas: western and eastern.
- The majority of the western portion of the site was used as a theatre (Kings Theatre) from the early 1900s to 1970s. A small building on the north-western portion has been used for retail shops from the 1920s to currently. In the 1980s the western portion was redeveloped for King Plaza shopping centre.
- The eastern portion of the site comprised residential allotments, with dwellings and associated sheds. The dwellings and sheds appeared to be altered / extended over the years. Between the 1990s and early 2000s the residential allotments were moved and replaced with asphalt paved car park. The exception to this is one dwelling on the south-east corner which remains on the site today.
- Prior to development for residential and commercial uses, it is anticipated the site was undeveloped.

### 3.9 Potential Offsite Sources of Contamination

No potential offsite sources of contamination have been identified.

### 3.10 Gaps in the Site History

Whilst the site history is reasonably comprehensive there are some gaps identified in the review as follows:

- The uses of the site prior to the early 1900s is not known, but given the time elapsed these activities are unlikely to impact the site;
- The extent of fill material on the site (if any), and the origin and quality of fill materials is not known; and
- The materials used to construct former buildings is not known, and may have included hazardous building materials (i.e. asbestos, lead paints). The demolition practices for the former buildings are not known.

#### 3.11 Areas of Environmental Concern

Table 3.11 (below) shows the areas of environmental concern (AECs) and associated Chemicals of Potential Concern (COPCs) identified for the site.

AEC	Potentially Contaminating Activity	Potential COCs	Likelihood of Contamination
1. Former buildings and sheds and potential demolition waste	Weathering of potentially hazardous materials (asbestos, lead paint, galvanised metals. Potential use of pesticides. Demolition waste	TRH, BTEX, PAH, OCPs, Metals, Asbestos	Medium to high
2. Imported fill	Potential use of imported fill of unknown quality and origin.	TRH, BTEX, PAH, OCPs, Metals, Asbestos	Low to medium
3. Historical car park pavements	Potential use of coal tar to construct pavements in the past	TRH, PAH and Phenols	Low

Table 3.11 – Areas of Environmental Concern and Chemicals of Potential Concern

## 4.0 Data Quality Objectives

#### 4.1 Step 1 – State the Problem

The site has historically been used for commercial purposes since early 1900s and there is a potential for contamination of soil to exist from past site uses. Three AECs were identified for the site, as described in Table 3.11, above.

#### 4.2 Step 2 – Identify the Decisions

The decisions to be made based on the assessment are:

- Is the site suitable for the proposed land use (commercial/industrial)?
- Is further assessment required?
- Will the site require remediation and/or management to make the site suitable for the proposed land use, from a contamination perspective?

### 4.3 Step 3 – Identify the Inputs to the Decisions

Inputs into the decision are:

- Have samples been collected in the required areas of the site (the identified AECs)?
- Have samples been collected at the required frequencies and adequately represent the conditions on site?
- Is the data set adequate to perform statistical analysis, if required (i.e. calculate 95% UCL)?
- Have the samples been analysed for the COPCs identified?
- Have concentrations exceeding the adopted criteria been reported in the samples?

• If concentrations exceeding adopted criteria have been reported, will these areas require remediation and/or management?

The informational inputs into the decision are:

- Field observations and field screening results;
- Laboratory results (concentrations of contaminants in soil);
- QA/QC documentation and data;
- Adopted assessment criteria (see Section 6); and,
- Relevant NSW EPA endorsed Guidelines.

The media to be sampled and analysed is:

• Soil.

### 4.4 Step 4 – Define the Study Boundaries

The study boundary is defined laterally as the site boundary, Lot 136 DP869710, within the Cessnock local government area. The site is located at 178 Lang Street, Kurri Kurri, NSW and covers an area of approximately 0.66ha (refer to Figure 1, Appendix A). Vertically, the study boundary will be defined by the depth of contamination, anticipated to be a maximum of 2m bgs. Temporally, the study boundary is the date of sampling, 1 and 5 December 2022.

### 4.5 Step 5 – Develop an Analytical Approach

The analytical approach can be defined as: -

- If the laboratory quality assurance/ quality control data are within the acceptable ranges, the data will be considered suitable for use;
- If the COPCs are reported above the adopted criteria and/or at elevated levels (where no criteria are available) then it will be considered whether further assessment, remediation and/or management measures are required;
- Where practical and/or appropriate, the 95% Upper Confidence Limit (UCL) of the validation samples will be calculated. If the 95% UCL is above the adopted criteria, then it will be considered whether further assessment, remediation and/or management measures are required; and,
- Where concentrations are below the assessment criteria, then no further assessment, remediation and/or management of that contaminant, in that area, in that media, is required. This is provided samples have been collected at the required frequencies (as per NSW EPA guidelines) and adequately represent the conditions on site, if not, additional sampling may be required.

### 4.6 Step 6 – Specify Acceptable Limits on Decision Errors

There are two types of errors:

- Type 1 finding that the site is contaminated, when it is not;
- Type 2 finding that the site is uncontaminated, when it is.

To reduce the potential for errors, the following will be applied:

- Appropriate field sampling methodologies and collection of field data (including sampling frequency);
- Robust QA/QC assessment of field procedures and laboratory data;
- Appropriate sampling and analytical density;

- Use of statistics (i.e. 95% UCL) to assess arithmetic average of COPCs. Use of statistics will also take into account:
  - o No sample should report a concentration more than 250% of the adopted criteria; and,
  - The standard deviation of a sample population should not exceed 50% of the adopted criteria.

The adopted criteria are shown in Section 6 below.

### 4.7 Step 7 – Optimise the Design for Obtaining Data

The methodologies presented in this report are designed to meet the nominated DQOs. Optimisation of the data collection process will be achieved by:

- Working closely with the analytical laboratories and sampling equipment suppliers so that appropriate procedures and processes are developed and implemented prior to and during the field work and that sampling, handling, and transport to, and processing by, the analytical laboratories is appropriate.
- Conduct sampling in accordance with industry best practice and Standard Operating Procedures (SOPs) for the type of sampling being conducted.

### 5.0 Field and Laboratory Investigations

#### 5.1 Sampling Plan

The site is about 0.66ha in area. The NSW EPA (2022) Sampling Design Part 1 – Application, Contaminated Land Guidelines recommends a minimum of 16 sampling locations in a square grid to characterise a site of 0.66ha with no specific source locations (i.e. potential widespread contamination). Based on the desktop assessment this sampling density was adopted.

Six sampling locations (BH01 to BH06) were located within the existing building, and the remaining ten sampling locations (BH07 to BH16) were located in the carpark area. The locations inside the building were nominated based on accessibility.

The sampling locations are shown on Figure 2, Appendix A.

#### 5.2 Soil Sampling

The boreholes were drilled on the 1 and 5 December 2022 under the full-time attendance of an environmental scientist from Qualtest.

The locations for BH01 to BH06 (inside the building) were concrete cored by a professional concrete cutter. The boreholes were then drilled using a hand auger to depths of between 0.4m and 1.3m, with boreholes terminating due to refusal on weathered sandstone.

The locations BH07 to BH16 (in the car park) were drilled using a 2.7t excavator with a 250mm diameter auger attachment. The boreholes were drilled to depths of between 0.65 to 2.15m, with boreholes terminating due to refusal on weathered sandstone.

Samples were collected directly from the hand auger and excavator auger, at the surface under the concrete/asphalt, and then at about 0.5m intervals in fill, and the top of natural soils. Each sample was collected using a clean pair of nitrile gloves

The soil samples were placed into 250mL laboratory supplied glass jars and zip locked bags for laboratory analysis. Each soil sample was placed directly into an ice-chilled esky and remained chilled during fieldwork and transportation to the laboratory.

### 5.3 Laboratory Analysis

The samples were dispatched to the NATA-accredited Eurofins MGT laboratory under chain of custody conditions. Soil samples were selected for analysis based on field observations, and providing a spread across the site. The soil samples were analysed for the following:

- Total Recoverable Hydrocarbons (TRH) 16 primary samples;
- Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) 16 primary samples;
- Polycyclic Aromatic Hydrocarbons (PAHs) 16 primary samples;
- Metals (arsenic, cadmium, chromium, copper, lead, nickel, zinc and mercury) 16 primary samples;
- Asbestos (presence/absence) 16 soil samples and 1 material sample;
- Organochlorine Pesticides (OCPs) 4 primary samples;
- Phenols 1 primary sample; and,
- Cation Exchange Capacity and pH 3 primary samples.

# 6.0 Investigation Criteria

### 6.1 Health and Ecological Investigation and Screening Levels

To assess whether the material is suitable for re-use on-site, the laboratory results were compared to the health and ecological investigation levels for soil, presented in the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013).

ASC NEPM (2013) provides health and ecological investigation and screening levels for different exposure scenarios based on a proposed land use. They are adopted as concentrations of a contaminant above which either further appropriate investigation and/or evaluation will be required, or development of an appropriate management strategy (including remediation).

Health Investigation Levels (HILs) and Health Screening levels (HSLs) are applicable for assessing human health risk via relevant exposure pathways. The HILs were developed for a broad range of metals and organic substances. These are generic to all soil types. The HSLs have been developed for selected petroleum compounds and fractions and are applicable to assessing human health risk via inhalation and direct contact with soil and groundwater. The HSLs depend on specific soil physicochemical properties, building configurations, land use scenarios and the depth that groundwater is encountered.

Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) are applicable for assessing risk to terrestrial ecosystems under residential, open space and commercial/industrial land use scenarios. They apply to the top 2m of soil, which corresponds to the root zone and habitation zone of many species.

The EILs are associated with selected metals and organic compounds. The EILs are site specific and are determined by calculating an Ambient Background Concentration (ABC) and an Added Contaminant Limit (ACL) for the site, which are added together to get the EIL. In the absence of ambient background concentration data, a generic ACL, based on the soil's pH, Cation Exchange Capacity (CEC) and clay content, has been adopted. Background levels have been adopted from Olszowy et al (1995) Trace Element Concentrations in Soils from Rural and Urban Areas of Australia.

The ESLs are associated with petroleum compounds and fractions and are dependent on specific soil physical properties (i.e. coarse and fine-grained soil).

Based on the proposed site use the investigation and screening levels for commercial/industrial land use have been adopted, and are shown in Table 6.4 below.

#### 6.2 Asbestos Materials in Soil

The assessment of known and suspected asbestos contamination in soil is based on:

- ASC NEPM (2013); and
- WA DoH (2009) Guidelines of the assessment and management of asbestos contaminated sites in Western Australia, WA Department of Health and Department of Environment and Conservation.

Schedule B1, Section 4 ASC NEPM (2013) provides guidance on the assessment of both friable and non-friable forms of asbestos in soil. This guidance is based on the WA DoH (2009) Guidelines that presented risk based screening levels for asbestos in soil under various landuse scenarios.

For the purpose of assessing asbestos impacts in soil, three groups are recognised:

- Asbestos Containing Material (ACM) which is in sound condition although possibly broken or fragmented and the asbestos is bound in a matrix. This is restricted to material that cannot pass through a 7mm x 7mm sieve;
- Fibrous asbestos (FA) friable asbestos material, such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products;
- Asbestos fines (AF) includes free fibres of asbestos, small fibre bundles and also ACM fragments that pass through a 7mm x 7mm sieve.

The health screening levels for asbestos in soil for commercial/industrial land use would be applicable for the site. As the testing was carried out on a presence/absence basis, a criteria of "detected" has been adopted.

#### 6.3 Management Limits

The ASC NEPM (2013) provides management limits for petroleum hydrocarbons. The purpose of the Management Limits is to 'avoid or minimise' potential effects of petroleum hydrocarbons.

ASC NEPM (1999, amended 2013) Schedule B(1) provides these as effects as:

- Formation of observable Light Non-Aqueous Phase Liquid (LNAPL);
- Fire and explosive hazards; and,
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

Management limits were derived by Canada-Wide Standard for Petroleum Hydrocarbons (CWS-PHC) in Soil (2008) where the lowest limiting value for each effect became the Recommended Management Limit. Based on site specific information, the applicability of management limits as soil investigation levels for the site was reviewed, and is discussed further in Table 6.3 below.

Table 6.3 discusses the derivation of the revised management limits. These management limits will be applied to soils. As described in the ASC NEPM (2013) the magnitude of an exceedance will be considered in the context of whether the exposure pathways are plausible and whether exposure will result in harm. Depending on the level of the exceedance further qualitative or quantitative risk assessment may be required.

TRH Fraction	Basis of Recommended Management Limits (coarse soils)	Appropriateness of Recommended Management Limits for Adopted Criteria
F1 (C6-C10)	Formation of free phase NAPL 700mg/kg	The limiting value of <b>700mg/kg</b> for formation of free phase NAPL is considered appropriate.
	Fire/Explosion Risk 1,400mg/kg	The value for effects on workers is not considered relevant as HSLs have been derived for Australian conditions and considered to be more appropriate.
F2 (C10-C16)	Effects on Workers in Trenches 1,000mg/kg Formation of free-phase Total F1 to F3 10,000mg/kg Fire/Explosion Risk 5,200mg/kg	'Effects on Workers in Trenches' is not appropriate for adoption as a criteria. These values are based on occupational exposure limits for gasoline and jet fuel, as there is no relevant acute toxicity endpoints available. CRC Care (2011) has established HSLs for 'Intrusive Maintenance Worker' for both vapour intrusion and direct contact of 'Not Limiting' and 20,000mg/kg respectively. HSLs are considered more appropriate for Australian conditions and the robustness in which they are derived.
		The limiting value of <b>5,200mg/kg</b> for explosion risk to intrusive maintenance workers is considered appropriate.
F3 (C16-C34)	Effectiveness of bioremediation 3,500mg/kg Formation of free phase NAPL Total F1 to F3 10,000mg/kg	'Effectiveness of bioremediation' is not appropriate as a validation criteria, rather more of a guide for assessing whether bioremediation may be a viable option. It should be noted that this criterion was developed based on Canadian conditions, where bioremediation may not be as accelerated compared to the generally warmer Australian climate.
		The limiting value of <b>10,000mg/kg</b> for formation of free phase NAPL is considered appropriate.
F4 (C34-C40)	Formation of free phase NAPL 10,000mg/kg	The limiting value of <b>10,000mg/kg</b> for formation of free phase NAPL is considered appropriate.

Table 6.3 - S	ite Specific	Applicability	of Management Limits
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## 6.4 Adopted Soil Investigation Criteria

The adopted soil criteria are presented in Table 6.4 below.

Table 6.4 – Adopted Soil Criteria

Contaminant	HIL / HSL^ D	EIL / ESL D	Management Limits
Arsenic	3,000	160	-
Cadmium	900	-	-
Chromium VI	3,600	-	-
Chromium III	-	680*	-
Copper	240,000	300*	-
Lead	1,500	1,800	-
Nickel	6,000	260*	-
Zinc	400,000	720*	-
Mercury	730	-	-
Benzene	4	95	-
Toluene	NL	135	-
Ethylbenzene	NL	185	-
Xylenes	NL	95	-
Naphthalene	NL	370	-
TRH C6-C10	-	215	700
TRH C6-C10 minus BTEX	310	-	-
TRH >C10-C16	-	170	5,200
TRH >C10-C16 minus naphthalene	NL	-	-
TRH >C16-C34	NL	2,500	10,000
TRH >C34-C40	NL	6,600	10,000
Benzo(a)pyrene	-	1.4	-
Benzo(a)pyrene TEQ	40	-	-
Total PAHs	4,000	-	-
DDD+DDT+DDE	3,600	640	-

Contaminant	HIL / HSL^ D	EIL / ESL D	Management Limits
Aldrin & dieldrin	45	-	-
Chlordane	530	-	-
Endosulfan	2,000	-	-
Endrin	100	-	-
Heptachlor	50	-	-
Hexachlorobenzene	80	-	-
Methoxychlor	2,500	-	-
Mirex	100	-	-
Toxaphene	160	-	-
Pentachlorophenol	660	-	-
Phenol	240,000	-	-
Cresols	25,000	-	-
Asbestos	Detected	-	-
Bonded ACM %	0.05	-	-
FA and AF %	0.001	-	-
All forms of asbestos	No visible evidence for surface soil (top 10cm)	-	-

Notes: \* EIL based on pH of 6.6, CEC of 9.5meq/100ml, and clay content of 10% from samples collected onsite. AHSLs based on clay soils, 0-1m. # ESLs based on fine grained soils.

## 7.0 Quality Assurance/Quality Control

Sampling activities were undertaken in accordance with normal, industry accepted practices and standards. The assessment of field and laboratory quality assurance / quality control (QA / QC) procedures is provided below, and a data validation report is presented in Appendix J.

In order to assess field quality assurance / quality control (QA/QC) procedures, the following quality control samples were collected and analysed:

QC Sample	Туре	Lab	Analysis
D.5.12.22	Duplicate of BH07 0.1-0.2	Eurofins	TRH, BTEX, PAH, Metals

QC Sample	Туре	Lab	Analysis
T.5.12.22	Triplicate of BH07 0.1-0.2	ALS	TRH, BTEX, PAH, Metals

Primary and intra lab duplicate samples were analysed by the NATA-accredited Eurofins laboratory. Inter-laboratory duplicates were analysed by NATA accredited laboratory ALS.

Table 3, Appendix I, presents the relative percentage differences (RPDs) between the primary and duplicate samples. A review of the Qualtest QA / QC results indicates that RPDs were within the acceptable range (30%). It is noted that low concentrations can exaggerate the percentage differences with respect to small total concentrations, therefore where results for primary and duplicate sample were less than 10 time the LOR, the RPDs have been disregarded.

The laboratory internal QA/QC reports indicated that the appropriate laboratory QA / QC procedures and rates were undertaken for contamination studies, and that:

- Laboratory blank samples were free of contamination;
- Matrix spike recoveries were within the laboratory control limits;
- Laboratory duplicate RPDs were recorded within the control limits. For an RPD for moisture the lab quoted code Q15 which states "The RPD reported passes Eurofins Environment Testing's QC Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report." Based on this, the RPDs is not considered to affect the data usability.
- Surrogates and laboratory control samples were within the laboratories acceptable range

Based on the above, and the data validation report in Appendix J, it is considered that the field and laboratory methods for soil sampling are appropriate and that the data obtained is usable and considered to reasonably represent the concentrations at the sampling points at the time of sampling.

## 8.0 Results

#### 8.1 Subsurface Conditions

Table 8.1.1 presents a summary of the typical soil types encountered at borehole locations during the field investigation, divided into representative geotechnical units. Table 8.1.2 contains a summary of the distribution of the above geotechnical units at the borehole locations. The borehole logs are presented in Appendix H.

Unit	Soil Type	Description
1	ASPHALT / CONCRETE	Asphalt / Concrete

Unit	Soil Type	Description
2	FILL	<ul> <li>SAND – fine grained, pale brown.</li> <li>SAND – fine to medium grained, brown, trace fine grained sub-angular to angular gravel.</li> <li>Gravelly SAND – fine to medium grained, pale brown to brown and grey-brown, and dark brown to black, fine-grained angular and sub-angular gravel.</li> <li>Sandy GRAVEL / Gravelly SAND – fine to medium grained, pale orange-brown, rounded to sub-angular gravel, trace fines of low plasticity.</li> <li>CLAX – medium plasticity, dark brown with some grey-brown. In BH15</li> </ul>
		only.
3	COLLUVIUM / POSSIBLE FILL	CLAY – low to medium plasticity, grey-brown with some black. Sandy CLAY – medium plasticity, dark grey to dark grey-brown, fine to coarse grained sand, with fine to medium grained rounded to sub- rounded gravel.
		CLAY – low to medium plasticity, orange-brown, brown and red-brown, some fine grained sand and gravel.
4	residual soil	Clayey SAND / Sandy CLAY – fine to coarse grained, medium plasticity clay, orange-brown, brown and pale grey, trace fine grained, angular gravel.
		Gravelly CLAY – medium plasticity, brown to dark brown with mottled orange-brown and red-brown, fine to medium grained rounded to sub-angular gravel, trace fine to coarse grained sand.
5	EXTREMELY WEATHERED SANDSTONE	Silty Sandstone – breaks down into CLAY, low plasticity, pale orange- brown, with fine grained sand.
6	SLIGHTLY WEATHERED SANDSTONE	Silty SANDSTONE – fine grained, pale orange and pale grey, estimated medium strength.

#### Table 8.1.2 – Summary of Geotechnical Units Encountered at Borehole Locations

Location	Unit 1 Concrete/Asphalt	Unit 2 Fill	Unit 3 Colluvium/Fill	Unit 4 Residual Soil	Unit 5 XW Sandstone	Unit 6 SW Sandstone
BH01	0.0-0.1	0.1-0.25	-	0.25-0.4^	-	-
BH02	0.0-0.1	0.1-0.2	-	0.2-0.5^	-	-
вноз	0.0-0.15 0.3-0.35	0.15-0.3 0.35-0.7	-	0.7-1.25	1.25-1.4^	-
BH04	0.0-0.13	0.13-0.55	-	0.55-0.8	-	0.8-0.81^
BH05	0.0-0.15	0.15-0.25	-	0.25-0.4		0.4-0.41^
BH06	0.0-0.16	0.16-0.25	0.25-0.6	0.6-1.0^	-	-
BH07	0.0-0.045	0.045-0.5	-	0.5-1.1	-	1.1-1.15^
BH08	0.0-0.03	0.03-0.4	0.4-0.5	0.5-1.6	-	1.6-1.7^

BH09	0.0-0.04	0.04-0.85	-	0.85-0.9	-	0.9-0.91^
BH10	0.0-0.04	0.04-0.65	-	-	-	0.65-0.7^
BH11	0.0-0.04	0.04-0.8	-	0.8-2.0	-	-
BH12	0.0-0.04	0.04-1.2	-	-	-	1.2-1.21^
BH13	0.0-0.04	0.04-0.8	-	0.8-2.0	-	2.0-2.05^
BH14	0.0-0.04	0.04-0.6	0.6-0.85	0.85-2.1	-	2.1-2.15^
BH15	0.0-0.04 0.3-0.34	0.04-0.3 0.34-1.9	-	-	-	1.9-1.91^
BH16	0.0-0.04	0.04-0.9	-	0.9-1.85	-	1.85-1.86^

Note: ^ borehole terminated due to refusal on sandstone.

No odours or stained soils were observed. Anthropogenic material were observed as follows:

- BH07 trace tile fragments were observed in fill material at 0.33m to 0.5m depth;
- BH10 a fragment of potential ACM was encountered in fill at about 0.4-0.5m depth. The fragment comprised fibre-cement, about 50mm x 30mm x 3mm, and was unable to be crushed by hand pressure;
- BH15 trace glass fragments were observed in fill material at 1.6m to 1.9m depth;
- BH16 trace brick fragments were observed in fill material at 0.3m to 0.9m depth;

No groundwater inflows were observed during drilling.

#### 8.4 Laboratory Results

Soil analytical results for the contamination assessment are summarised in Tables 1 and 2, Appendix I. The laboratory analytical reports are also included in Appendix K.

The soil laboratory results were compared to the investigation levels described in Section 6. The analytical results indicated that concentrations of contaminants were reported below the adopted criteria, and asbestos was not detected in soil samples. Chrysotile asbestos was detected in a fragment of fibre-cement material collected from BH10 at 0.4-0.5m depth with the fill. The fragment was about 60mm x 50mm x 5mm and was not able to be crushed by hand pressure. Phenols were below the laboratory detection limit for the sample of older asphalt pavement tested.

## 9.0 Conceptual Site Model

Based on the results of the preliminary and detailed contamination assessment carried out on the site, a Conceptual Site Model (CSM) has been developed.

#### Table 9.1 – Conceptual Site Model

AEC	COPC	Mechanism of Contamination	Potentially Affected Media	Human & Ecological Receptors	Potential mechanisms of exposure	Sampling Completed	Potential & Complete Exposure Pathways
<ol> <li>Current and former buildings:</li> <li>Weathering of potentially hazardous materials (asbestos, lead paint, galvanised metals)</li> <li>Potential use of pesticides around buildings</li> <li>Demolition waste</li> </ol>	Metals, Asbestos, OCPs	<ul> <li>Top-down flakes/fibres onto soil.</li> <li>Leaching of soil contaminants to surface water and groundwater.</li> </ul>	<ul> <li>Surface soils (including former site surface)</li> <li>Surface water</li> <li>Groundwater</li> </ul>	<ul> <li>Current site users</li> <li>Future construction workers &amp; site users</li> <li>Soil biota/plants and transitory wildlife</li> <li>Ecosystem in Swamp Creek located about 1.8km north-west of the site.</li> <li>Offsite groundwater discharge point – Swamp Creek located about 1.8km north-west of the site.</li> </ul>	<ul> <li>Direct dermal contact with contaminated soil</li> <li>Ingestion of contaminated soil</li> <li>Inhalation of asbestos fibres, or contaminated soil (as dust)</li> <li>Leaching of soil contaminants to surface water and/or groundwater – Swamp Creek</li> <li>Groundwater discharge to Swamp Creek</li> </ul>	BH01 to BH16	<ul> <li>Currently incomplete exposure pathway for current site visitors and users, and ecological receptors due to concrete and asphalt paving across site.</li> <li>Complete exposure pathway for future construction workers, if works under concrete pavement are required for development, due to presence in at least the area of BH10. Asbestos containing materials are likely to be present in other areas where former buildings were present.</li> <li>Incomplete exposure pathway for soil contaminants to migrate to surface water via run-off, as no contamination identified, and due to concrete/asphalt paving across site, and distance to Swamp Creek.</li> <li>Incomplete exposure pathway for soil contaminants to leach to groundwater, due to no contamination identified, likely depth of groundwater (&gt;5m bgs), and clayey sub-soils.</li> </ul>
<ol> <li>Imported Fill:</li> <li>Potential use of contaminated imported fill.</li> </ol>	TRH, BTEX, PAH, Metals, Asbestos, OCPs	<ul> <li>Top-down and to depth of fill</li> <li>Leaching of contaminants from fill into underlying soils</li> <li>Leaching of soil contaminants to groundwater</li> </ul>	<ul> <li>Fill soils</li> <li>Underlying soils</li> <li>Surface water</li> <li>Groundwater</li> </ul>	<ul> <li>Current site visitors</li> <li>Future construction workers &amp; site users</li> <li>Soil biota/plants and transitory wildlife</li> <li>Ecosystem in Swamp Creek located about 1.8km north-west of the site.</li> <li>Offsite groundwater discharge point – Swamp Creek located about 1.8km north-west of the site.</li> </ul>	<ul> <li>Direct dermal contact with contaminated soil</li> <li>Ingestion of contaminated soil</li> <li>Inhalation of asbestos fibres, or contaminated soil (as dust)</li> <li>Inhalation of hydrocarbon vapours</li> <li>Leaching of soil contaminants to surface water and/or groundwater – Swamp Creek</li> <li>Groundwater discharge to Swamp Creek.</li> </ul>	BH01 to BH16	<ul> <li>Currently incomplete exposure pathway for current site visitors and users, and ecological receptors due to concrete and asphalt paving across site.</li> <li>Incomplete exposure pathway for future construction workers, as no contamination associated with imported fill identified.</li> <li>Incomplete exposure pathway for soil contaminants to migrate to surface water via run-off, as no contamination identified, and due to concrete/asphalt paving across site, and distance to Swamp Creek.</li> <li>Incomplete exposure pathway for soil contaminants to leach to groundwater, due to no contamination identified, likely depth of groundwater (&gt;5m bgs), and clayey sub-soils.</li> </ul>

AEC	COPC	Mechanism of Contamination	Potentially Affected Media	Human & Ecological Receptors	Potential mechanisms of exposure	Sampling Completed
<ul> <li>3. Historical car park pavements:</li> <li>Potential use of coal tar to construct pavements in the past.</li> </ul>	Phenols	<ul> <li>Leaching of contaminants from coal tar pavement into underlying soils</li> <li>Leaching of soil contaminants to groundwater</li> </ul>	<ul> <li>Old pavement</li> <li>Underlying soils</li> <li>Surface water</li> <li>Groundwater</li> </ul>	<ul> <li>Current site visitors</li> <li>Future construction workers &amp; site users</li> <li>Soil biota/plants and transitory wildlife</li> <li>Ecosystem in Swamp Creek located about 1.8km north-west of the site.</li> <li>Offsite groundwater discharge point – Swamp Creek located about 1.8km north-west of the site.</li> </ul>	<ul> <li>Direct dermal contact with contaminated soil/pavement</li> <li>Ingestion of contaminated soil/pavement</li> <li>Inhalation of phenol vapours</li> <li>Leaching of soil contaminants to surface water and/or groundwater – Swamp Creek</li> <li>Groundwater discharge to Swamp Creek.</li> </ul>	вноз

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# **10.0 Conclusions and Recommendations**

The site history review showed the western portion of the site has been used for commercial purposes, including a theatre and retail shops, likely since the 1920s. The eastern portion of the site was used for residential purposes, since at least the 1940s, with multiple dwellings and associated sheds. The dwellings were progressively removed and replaced with an asphalt paved car park between 1990s and early 2000s. The site currently comprises a shopping centre (Kingsway Plaza) and associated asphalt paved car park.

Three Areas of Environmental Concern (AECs) were identified based on the site history and site observations:

- 1. Current and former buildings: Weathering of potentially hazardous materials (asbestos, lead paint, galvanised metals); Potential use of pesticides around buildings; Demolition waste
- 2. Imported Fill: Potential use of contaminated imported fill;
- 3. Historical car park pavements: Potential use of coal tar to construct pavements in the past.

To provide an assessment of potential soil contamination, 16 soil sampling locations were carried out across the site. This sampling density was in accordance with the minimum recommended by NSW EPA (2022) Sampling Design Part 1 – Application, Contaminated Land Guidelines.

The laboratory results reported concentrations of contaminants below the adopted criteria and no asbestos was detected in soil samples. Chrysotile asbestos was detected in a fragment of fibre-cement material collected from BH10 at 0.4-0.5m depth. The fragment was about 60mm x 50mm x 5mm and was not able to be crushed by hand pressure. No phenols were detected in the sample of older asphalt tested, and no odours were observed, indicating that coal tar was not present.

BH10 was located in the eastern portion of the site, within an area previously containing residential dwellings and sheds. It is possible that fragments of asbestos containing materials (ACM) are present in other locations on the site, particularly in the area of the former dwellings and associated sheds. As the site is currently paved with asphalt and concrete, the ACM does not currently pose a risk to site users. The ACM could pose a risk to future construction workers, and ACM will need to be managed during earthworks and construction of the proposed development.

Based on the preliminary and detailed assessment completed, it is considered that the site is suitable for the proposed shopping centre development (commercial/industrial purposes), provided the following recommendations are implemented:

- Preparation of an Asbestos Management and Removal Plan to be implemented during earthworks and construction of the proposed development. The plan should outline how ACM will be assessed and identified prior to earthworks commencing on the site, and the procedures for the handling and removal of ACM (including soils containing asbestos). Care must be taken to prevent spreading ACM onto other areas of the site;
- Preparation of an Unexpected Finds Procedure to manage potential unexpected finds of contamination during earthworks and construction for the proposed development.
- The Asbestos Management and Removal Plan and Unexpected Finds Procedure could form part of the Construction Environmental Management Plan, to be prepared by the site owner/manager, or contractor.

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013). The reports comprises a stage 1 and 2 assessment in accordance with SEPP (Resilience and Hazards) 2021, Chapter 4.

# 11.0 Limitations

This report has been prepared by Qualtest for Votraint No 124 Pty Ltd ATF The Christian Family Trust based on the objectives and scope of work list in Sections 1.1 and 1.2. No warranty, expressed or implied, is made as to the information and professional advice included in this report. Anyone using this document does so at their own risk and should satisfy themselves concerning its applicability and, where necessary, should seek expert advice in relation to their particular situation.

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

In preparing this report Qualtest has relied on information contained in searches of government websites and has not independently verified or checked the data contained on these websites.

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

Site conditions may change after the date of this Report. Qualtest does not accept responsibility arising from, or in connection with, any change to the site conditions.

# 12.0 References

**NSW Department of Primary Industries (Office of Water)** Registered Groundwater Bore Map, accessed from <u>http://allwaterdata.water.nsw.gov.au/water.stm</u>.

**NSW Land and Property Information**, Spatial Information eXchange (SIX) Maps - Topographic Map, accessed from <u>https://maps.six.nsw.gov.au/</u>.

**State of NSW and Department of Planning, Industry and Environment** Acid Sulfate Soil online database, accessed from https://www.environment.nsw.gov.au/eSpade2Webapp

NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land.

NSW EPA (2022) Sampling Design Part 1 – Application, Contaminated Land Guidelines

**NEPC (2013)** National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), Canberra (ASC NEPM 2013).

**WA DoH (2009)** Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, WA Department of Health and Department of Environment and Conservation.

**WA DoH (2021)** Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, WA Department of Health and Department of Environment and Conservation.
APPENDIX A: Figures



. 🔽	Client:	Votraint No 124 Pty Ltd ATF The Christian Family Trust	Drawing No:	FIGURE 1
	Project:	Preliminary & Detailed Contamination Assessment	Project No:	NEW22P-0213-AA
<u>uuuuusi</u>	Location:	178 Lang Street, Kurri Kurri	Scale:	N.T.S.
LABORATORY (NSW) PTY LTD	Title:	Site Location Plan	Date:	6/12/2022



# **APPENDIX B:** Groundwater Bore Search



**APPENDIX C:** Historical Titles

### ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 943 842) ABN 82 147 943 842

18/36 Osborne Road, Manly NSW 2095 Mobile: 0412 169 809 Email: \_search@alsearchers.com.au

09<sup>th</sup> November, 2022

QUALTEST PTY LTD 2 Murray Dwyer Circuit, MAYFIELD WEST, NSW 2304

Attention Tom Hall,

RE:

178 Lang Street, Kurri Kurri Purchase Order NEW22P- Kurri Kurri

### **Current Search**

Folio Identifier 136/869710 (title attached) DP 869710 (plan attached) Dated 07<sup>th</sup> November, 2022 Registered Proprietor: **GEORGE VRACHLIOTIS MARIA VRACHLIOTIS VOTRAINT NO 124 PTY LIMITED** (ACN 002 888 655)

## Title Tree Lot 136 DP 869710

Folio Identifier 136/869710

#### See Notes (a), (b), (c), (d), (e), (f), (g), (h) & (i)

(a)	<b>(b)</b>	(c)
Folio Identifier 21/544418	Folio Identifier 22/544418	Folio Identifier 1/702372
CTVol 11463 Folio 191	CTVol 11463 Folio 192	See Notes (ci), (cii) & (ciii)
Certificate of Ti	itle Volume 3893 Folio 34	
	****	
(ci)	(cii)	(ciii)
CTVol 11352 Folio 75	CTVol 12897 Folio 223	CTVol 15202 Folio 154
CTVol 3563 Folio 56	CTVol 1875 Folio 114	Crown Land
****	****	****
(d)	(e)	( <b>f</b> )
Folio Identifier 2/702372	Folio Identifier 10/20/758590	Folio Identifier 11/20/758590

 CTVol 12897 Folio 223
 CTVol 1481 Folio 30
 CTVol 1481 Folio 29

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CTVol 1875 Folio 114

(g)	( <b>h</b> )	(i)
Folio Identifier 131/823720	Folio Identifier 133/823720	Folio Identifier 134/823720
Folio Identifier 13/20/758590	Folio Identifier 12/20/758590	CTVol 1875 Folio 114
CTVol 1540 Folio 138	CTVol 6425 Folio 156	****
****	* * * *	

#### Index

 $\begin{array}{c} T-Transfer\\ (L)-Lease\\ ND-Notice of Death\\ TA-Transmission Application\\ G-Grant \end{array}$ 

## Summary of proprietor(s) Lot 136 DP 869710

#### Year

### **Proprietor(s)**

	(Lot 136 DP 869710)	
15 Nov 2021–	George Vrachliotis	Т
todate	Maria Vrachliotis	
	Votraint No 124 Pty Limited (ACN 002 888 655)	
17 Apr 2009	George Vrachliotis	Т
	Maria Vrachliotis	
	Votraint No 124 Pty Limited (ACN 002 888 655)	
	G & M Musumeci Pty Limited (ACN 001 382 725)	
(12 Oct 2006	(various current leases shown on Folio Identifier 136/869710	(L)
todate)	(attached))	
05 Aug 2003	George Vrachliotis	Т
-	Maria Vrachliotis	
	Natasha Vrachliotis	
	Votraint No 124 Pty Limited (ACN 002 888 655)	
	G & M Musumeci Pty Limited (ACN 001 382 725)	
13 Aug 2001	Jeffrey William Welbourne	Т
	Joy Welbourne	
	Kenneth Alexander Wilson	
	Julie Patricia Wilson	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
28 Oct 1997	Max Christopher Donnelly	
	Jeffrey William Welbourne	
	Joy Welbourne	
	Kenneth Alexander Wilson	
	Julie Patricia Wilson	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
28 Jul 1997	Jeffrey William Welbourne, butcher	
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
(28 Jul 1997	(various leases shown on Historical Folio 136/869710 (attached))	(L)
todate)		

See Notes (a), (b), (c), (d), (e), (f), (g), (h) & (i)

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	(Lot 21 DP 544418)	
13 Mar 1995	Jeffrey William Welbourne, butcher	
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
08 Dec 1989	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
09 Apr 1988	Marnal Pty Limited	
	(Lot 21 DP 544418 – CTVol 11463 Fol 191)	
04 Sep 1985	Marnal Pty Limited	Т
13 Feb 1985	Geoffrey Paul Williams	Т
27 Jan 1971	Geoffrey Paul Williams, trainee mechanical engineer	Т
	Maureen Williams, his wife	
20 Nov 1970	Mary Scott, widow	
	(Part Allotment 1 Section 20 Town Kurri Kurri – Area 14	
	Perches – CTVol 3893 Fol 34)	
24 Feb 1970	Mary Scott, widow	ND
(20 Feb 1969 to	(lease to William Peter Cleaves & John McIntosh Cleaves,	(L)
20 Feb 1970)	solicitors of 172 Lang Street, Kurri Kurri)	
04 Oct 1955	John Scott, café proprietor	Т
	Mary Scott, his wife	
24 Nov 1953	Nellie Brian, wife of John Brian, loco cleaner	Т
03 Feb 1950	Harold George Ward, storekeeper	Т
13 Jan 1948	Charles Jenkins, miner	TA
	Bronwyn June Dalton, wife of Paul Dalton, shop assistant	
	Mary Stevens, wife of James Stevens, electrician	
29 Jul 1926	Ishmael James Jones, fruiterer	Т

N	ote	<b>(b)</b>
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	(Lot 22 DP 544418)	_
13 Mar 1995	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
13 Mar 1995	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Gartrom Pty Ltd (ACN 003 684 393)	
15 Jul 1992	Kenneth Alexander Wilson, pharmacist	Т
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
28 Mar 1988	William Peter Cleaves, solicitor	
(28 Mar 1988 to	(various leases shown on Historical Folio 22/544418 (attached))	(L)
28 Jul 1997)		
	(Lot 22 DP 544418 – CTVol 11463 Fol 192)	
10 Dec 1982	William Peter Cleaves, solicitor	Т
08 Nov 1971	William Peter Cleaves, solicitor	Т
	David McIntosh Cleaves, article clerk	
19 Jul 1971	Vincent St Holdings Ptv Ltd	Т
29 Jan 1971	J Coddington Ptv Limited	Т
20 Nov 1970	Mary Scott, widow	_
	(Part Allotment 1 Section 20 Town Kurri Kurri – Area 14	
	Perches – CTVol 3893 Fol 34)	
24 Feb 1970	Mary Scott, widow	ND
(20 Feb 1969 to	(lease to William Peter Cleaves & John McIntosh Cleaves.	(L)
20 Feb 1970)	solicitors of 172 Lang Street, Kurri Kurri)	
04 Oct 1955	John Scott, café proprietor	Т
	Mary Scott, his wife	
24 Nov 1953	Nellie Brian, wife of John Brian, loco cleaner	Т
03 Feb 1950	Harold George Ward, storekeeper	Т
13 Jan 1948	Charles Jenkins, miner	ТА
	Bronwyn June Dalton, wife of Paul Dalton. shop assistant	
	Mary Stevens, wife of James Stevens, electrician	
29 Jul 1926	Ishmael James Jones, fruiterer	Т

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Note (c)
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	(Lot 1 DP 702372)	
13 Mar 1995	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
08 Dec 1989	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
21 Jan 1985	Marnal Pty Limited	
28 Jun 1984	Sanrij Pty Limited	Т
29 Mar 1984	The Council of the City of Greater Cessnock	
(29 Mar 1984 to	(various leases shown on Historical Folio 1/702372)	(L)
28 Jul 1997)		

See Notes (ci), (cii) & (ciii)

Note (ci)

	(Allotment 15 Section 20 Town Kurri Kurri – CTVol 11352	
	Fol 75)	
12 Apr 1975	The Council of the City of Greater Cessnock	Т
01 Jul 1970	Woolworths Properties Limited	Т
	(Allotment 15 Section 20 Town Kurri Kurri – Area 1 Rood –	
	CTVol 3563 Fol 56)	
25 May 1926	Kurri Kurri and South Maitland Amusement Company Limited	Т
(12 Aug 1931 to	(lease to Greater Union Theatres Pty Limited)	(L)
16 Jun 1970)		
26 Feb 1924	Peter Olsson, showman	

#### \*\*\*\*

#### Note (cii)

	(Allotment 14 Section 20 Town Kurri Kurri – CTVol 12897 Fol 223)	
14 Oct 1975	The Council of the City of Greater Cessnock	Т
	(Allotment 14 Section 20 Town Kurri Kurri – Area 1 Rood –	
	CTVol 1875 Fol 114)	
16 Jun 1970	Woolworths Properties Limited	Т
25 May 1926	Kurri Kurri and South Maitland Amusement Company Limited	Т
21 Nov 1918	Peter Olsson, showman	Т

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#### Note (ciii)

	(Lot 805 DP 46788 – CTVol 15202 Fol 154)	
20 Mar 1984	The Council of the City of Greater Cessnock	Т
	(Crown Lane – Town Kurri Kurri)	
Prior to 20 Mar	Crown Lane	
1984		

## Note (d)

	(Lot 2 DP 702372)				
13 Mar 1995	Jeffrey William Welbourne, butcher	Т			
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)				
08 Dec 1989	Jeffrey William Welbourne, butcher	Т			
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
21 Jan 1985	Marnal Pty Limited				
28 Jun 1984	Sanrij Pty Limited	Т			
29 Mar 1984	The Council of the City of Greater Cessnock				
(29 Mar 1984 to	(various leases shown on Historical Folio 2/702372 (attached))	(L)			
28 Jul 1997)					
	(Allotment 14 Section 20 Town Kurri Kurri – CTVol 12897 Fol				
	223)				
14 Oct 1975	The Council of the City of Greater Cessnock	Т			
	(Allotment 14 Section 20 Town Kurri Kurri – Area 1 Rood –				
	CTVol 1875 Fol 114)				
16 Jun 1970	Woolworths Properties Limited	Т			
25 May 1926	Kurri Kurri and South Maitland Amusement Company Limited	Т			
21 Nov 1918	Peter Olsson, showman	Т			

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### Note (e)

	(Lot 10 Section 20 DP 758590)	
13 Mar 1995	Jeffrey William Welbourne, butcher	
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
19 Jul 1991	Jeffrey William Welbourne, butcher	
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
(19 Jul 1991 to	(various leases shown on Historical Folio 10/20/758590)	(L)
28 Jul 1997)		
	(Allotment 10 Section 20 Town Kurri Kurri – Area 1 Rood	
	CTVol 1481 Fol 30)	
19 Jul 1991	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
20 Jun 1986	Marnal Pty Limited	Т
08 Sep 1980	Alan Thomas Geary, driveway attendant	Т
13 Aug 1974	Agnes Bailey, widow	ND
29 Oct 1962	Frederick Bailey, tester	Т
	Agnes Bailey, his wife	
29 Mar 1955	Raymond Lovell Gorton, departmental manager	Т
	Maude Hanna Gorton, his wife	
07 Mar 1949	Henry Robertson Smith, miner	ND
13 Sep 1924	Henry Robertson Smith, miner	Т
_	Annie Smith, his wife	
29 Jul 1903	John Henry Roberts, miner / grantee	G

-11-

	(Lot 11 Section 20 DP 758590)					
13 Mar 1995	Jeffrey William Welbourne, butcher	Т				
	Joy Welbourne, his wife					
	Kenneth Alexander Wilson, pharmacist					
	Julie Patricia Wilson, his wife					
	Ronald William Evans, business proprietor					
	Pamela Evans, his wife					
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)					
13 Mar 1995	Jeffrey William Welbourne, butcher	Т				
	Joy Welbourne, his wife					
	Kenneth Alexander Wilson, pharmacist					
	Julie Patricia Wilson, his wife					
	Ronald William Evans, business proprietor					
	Pamela Evans, his wife					
	Gartrom Pty Ltd (ACN 003 684 393)					
(19 Jul 1991 to	(various leases shown on Historical Folio 11/20/758590)	(L)				
28 Jul 1997)						
	(Allotment 11 Section 20 Town Kurri Kurri – Area 1 Rood					
	CTVol 1481 Fol 29)					
05 Nov 1992	Gartrom Pty Limited	Т				
05 Dec 1983	Jean Margretta Knott, widow	ND				
05 May 1947	Henry Knott, bricklayer	Т				
	Jean Margretta Knott, his wife					
21 Oct 1913	William Henry Stallard, dentist	Т				
29 Jul 1903	Isaac Pryor, miner / grantee	G				

Note (g)

	(Lot 131 DP 823720)	
20 Apr 1994	Jeffrey William Welbourne, butcher	
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
(19 Jul 1991 to	(various leases shown on Historical Folio)	(L)
28 Jul 1997)		
	(Lot 13 Section 20 DP 758590)	
13 Mar 1994	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
13 Mar 1994	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Gartrom Pty Ltd (ACN 003 684 393)	
09 Apr 1990	Gartrom Pty Limited	
	(Allotment 13 Section 20 Town Kurri Kurri – Area 1 Rood	
	CTVol 1540 Fol 138)	
28 Aug 1989	Gartrom Pty Limited	Т
15 Nov 1988	Graeme Robert Linn	TA
	Phillip William Hill	
09 Jun 1944	William Thomas Hall, garage proprietor	Т
23 Mar 1918	Joshua Jenkins, engine driver	Т
04 Jul 1913	Frederick Percival, miner	Т
24 Jun 1904	Lilian Mary Edye, spinster / grantee	G

N	ote	(h)
		· ·

	(Lot 133 DP 823720)				
20 Apr 1994	Jeffrey William Welbourne, butcher				
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)				
	(Lot 12 Section 20 DP 758590)				
20 Apr 1994	Jeffrey William Welbourne, butcher	Т			
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)				
09 Apr 1988	Jeffrey William Welbourne, butcher				
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
	(Allotment 12 Section 20 Town Kurri Kurri – Area 1 Rood				
	CTVol 6425 Fol 156)				
23 Sep 1992	Jeffrey William Welbourne, butcher	Т			
	Joy Welbourne, his wife				
	Kenneth Alexander Wilson, pharmacist				
	Julie Patricia Wilson, his wife				
	Ronald William Evans, business proprietor				
	Pamela Evans, his wife				
22 Aug 1990	Marnal Pty Limited	Т			
13 Jan 1972	Ronald Bailey, butcher	ND			
08 Jan 1952	Ronald Bailey, butcher	Т			
	Edith Matilda Bailey, his wife				
17 Dec 1951	Matthew Thomas Barker, weaver	Т			

## Cont.

Cont.

	(Allotment 12 Section 20 Town Kurri Kurri – Area 1 Rood CTVol 1479 Fol 244)	
13 Apr 1948	Matthew Thomas Barker, poultry farmer	Т
12 Dec 1947	Lillian May Paul, widow	ND
18 Jan 1938	Albert Matthew Paul, haulage driver	
	Lillian May Paul, his wife	
18 Jan 1938	Albert Henry Paul, deputy	ND
23 Mar 1927	Albert Henry Paul, deputy	Т
	Ellen Matilda Paul, his wife	
22 Feb 1922	James Barrass Hestelow, clerk	Т

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### Note (i)

	(Lot 134 DP 823720)	
29 Jan 1997	Jeffrey William Welbourne, butcher	Т
	Joy Welbourne, his wife	
	Kenneth Alexander Wilson, pharmacist	
	Julie Patricia Wilson, his wife	
	Ronald William Evans, business proprietor	
	Pamela Evans, his wife	
	Vicbar (Kingsway Plaza) Pty Ltd (ACN 065 543 332)	
15 May 1995	Council of the City of Greater Cessnock	
	(Allotment 14 Section 20 Town Kurri Kurri – CTVol 12897 Fol	
	223)	
14 Oct 1975	Council of the City of Greater Cessnock	
	(Allotment 14 Section 20 Town Kurri Kurri – Area 1 Rood –	
	CTVol 1875 Fol 114)	
16 Jun 1970	Woolworths Properties Limited	Т
25 May 1926	Kurri Kurri and South Maitland Amusement Company Limited	Т
21 Nov 1918	Peter Olsson, showman	Т
03 Nov 1915	George Hooper, hotel keeper	Т
19 May 1908	Patrick John Stephen, methodist minister / grantee	G



#### Cadastral Records Enquiry Report : Lot 136 DP 869710

Locality : KURRI KURRI

LGA : CESSNOCK

Parish : HEDDON

County : NORTHUMBERLAND



Report Generated 10:05:10 AM, 7 November, 2022 Copyright O Crown in right of New South Wales, 2017

This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

		Cadastral Records End	quiry Report : Lot	<u>136 DP 869710</u>	Ref : NOUSER
NSW	LAND REGISTRY	Locality : KURRI KURRI		Parish : HEDDON	
	SERVICES	LGA : CESSNOCK	LGA : CESSNOCK County : NORTHUMBERLAND		
		Status	Surv/Comp	Purpose	
DP382609					
Lot(s): 1					
	DP1017642	REGISTERED	COMPILATION	EASEMENT	
DP727313					
LOT(S): 1	DP10176/2	REGISTERED		FASEMENT	
DP758500	DI 1017042	REGISTERED	COMPLEXION	LAGEMENT	
Lot(s): 9 Se	ection : 20				
	DP268852	REGISTERED	SURVEY	EASEMENT	
DP1108272	2				
Lot(s): 190					
<b>7</b>	PART SECTIC	N 19 DP758590 (PUBLIC RESERV	/E) - SEE CROWN PLAI	N 21-2894	
<b>2</b>	CA103408 - L0 -	DT 190 DP1108272			
DP113842	3				
LOT(S): 21, 2	22 DP500024	HISTORICAL	COMPILATION	SUBDIVISION	
<u> </u>	CA88263 - I O	T 2 DP500024		CODDIVISION	
Lot(s): 21	0/100200 20	12 01 000024			
(0). ∠   (	CA105914 - L0	OT 1 DP500024			
	CA111576 - N	PW			
DP1150703	3				
	DP623730	HISTORICAL	COMPILATION	CONSOLIDATION	
<u>e</u> [	DP758590	HISTORICAL	COMPILATION	CROWN ADMIN N	Ю.
DP1241594	4				
Lot(s): 9, 10	0				
	DP234610	HISTORICAL	SURVEY	SUBDIVISION	
SP85348	DD210006	HISTORICAL			
	DF310990		SURVET		
	DF317794		SURVET		•
	DP1104067	HISTORICAL	SURVET	CONSOLIDATION	
3F92400 [] [	DP758590	HISTORICAL	COMPILATION	CROWN ADMIN N	0
	DP1208802	HISTORICAL	SURVEY	REDEFINITION	
Road	21 1200002	HIGT OTTO/LE	0011121		
Polygon Id(	(s): 105582533	3			

EX-SUR 11/02 DP1162682

 Caution:
 This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL

 ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.



Locality : KURRI KURRI LGA : CESSNOCK

County : NORTHUMBERLAND

Parish : HEDDON

Plan	Surv/Comp	Purpose
DP90354	SURVEY	UNRESEARCHED
DP100531	COMPILATION	UNRESEARCHED
DP104578	COMPILATION	UNRESEARCHED
DP112585	COMPLIATION	DEPARTMENTAL
DP302885	COMPLIATION	
DP307472	SURVEY	
DD209921		
DP210006		
DP310990		
DP312430	COMPILATION	
DP320213	SURVEY	
DP350070	SURVEY	UNRESEARCHED
DP373375	SURVEY	UNRESEARCHED
DP378653	SURVEY	UNRESEARCHED
DP380123	SURVEY	UNRESEARCHED
DP382609	SURVEY	UNRESEARCHED
DP401071	SURVEY	UNRESEARCHED
DP544418	SURVEY	SUBDIVISION
DP557948	SURVEY	SUBDIVISION
DP576121	COMPILATION	DEPARTMENTAL
DP588256	SURVEY	SUBDIVISION
DP667057	COMPILATION	DEPARTMENTAL
DP667803	COMPILATION	DEPARTMENTAL
DP668734	COMPILATION	DEPARTMENTAL
DP712723	SURVEY	SUBDIVISION
DP720686	COMPILATION	CROWN FOLIO CREATION
DP726847	COMPILATION	DEPARTMENTAL
DP727313	COMPILATION	DEPARTMENTAL
DP730855	COMPILATION	CONSOLIDATION
DP758590	COMPILATION	CROWN ADMIN NO.
DP775789	SURVEY	SUBDIVISION
DP834057	SURVEY	SUBDIVISION
DP869710	SURVEY	CONSOLIDATION
DP876096	SURVEY	SUBDIVISION
DP880701	SURVEY	SUBDIVISION
DP928564	COMPILATION	UNRESEARCHED
DP932339	COMPILATION	UNRESEARCHED
DP933324	SURVEY	UNRESEARCHED
DP935166	COMPILATION	UNRESEARCHED
DP938743	COMPILATION	UNRESEARCHED
DP966659	COMPILATION	UNRESEARCHED
DP973145	COMPILATION	UNRESEARCHED
DP1048289	COMPILATION	DEPARTMENTAL
DP1108272	COMPILATION	LIMITED FOLIO CREATION
DP1126263	COMPILATION	DEPARTMENTAL
DP1138423	SURVEY	SUBDIVISION
DP1150703	SURVEY	CONSOLIDATION
DP1241594	SURVEY	SUBDIVISION
DP1241594	UNRESEARCHED	SUBDIVISION
SP50450	COMPILATION	STRATA PLAN
SP53536	COMPILATION	STRATA PLAN
SP85348	COMPILATION	STRATA PLAN
SP92468	COMPILATION	STRATA PLAN

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 ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.



NOTE

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NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

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#### LAND REFERRED TO

Lot 805 in Deposited Plan 46788 at Kurri Kurri in the City of Greater Cessnock Parish of Heddon County of Northumberland.

#### FIRST SCHEDULE

THE COUNCIL OF THE CITY OF GREATER CESSNOCK.

#### SECOND SCHEDULE

1. Land excludes minerals and is subject to reservations and conditions in favour of the Crown - see Memorandum S700000A.

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<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence THE COMON SEAL of the COMEN SEAL of the COMENT SEAL OF THE SEAL OF THE COMENT SEAL OF THE COMENT SEAL OF THE COMENT SEAL OF THE SEAL OF THE SEAL OF</li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in : collowing ENCUMBRANCES 1 2 3 T ts (s713LGA) TW (sheriff) dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferor who is personally known to me INCIL OF THE CITY OF this /St. dw of
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>HE COMON SEAL of the CO SNOCK WAS hereto affixed</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in : collowing ENCUMBRANCES 1 2 3 T 2 3 (s713LGA) TW (Sheriff) EICINE as Joint tenants in 1/4 share; CONAID WILLIAM EMANS & PAMELA EMANS As Joint Tenants in 1/4 share & JOY METEORNE as Joint tenants in 1/4 share & JOY METEORNE as Joint tenants in 1/4 share & JOY METEORNE as Joint tenants in 1/4 share & VICDAR TW (Sheriff) EMANS & PAMELA EMANS As Joint Tenants in 1/4 share & VICDAR THANNEY + (KINSWAY PLAZA) PTY. LIMITED (AN 065 542 332 in 1/4 share TENANSY AS TENANS IN COMMN dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferor who is personally known to me. INCIL OF THE CITY OF this 1947 day of a Resolution of the
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(HE COMON SEAL of the CO SSNOK WAS hereto affixed</li> <li>(A) 19% in presence of a Signature of Witness and the contents</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T 2 3 T S (ST13LGA) TW (Sheriff) ENANCE: S LILE PAIRICIA WILSON & JOINT TW (Sheriff) ENANCE: EFFEY WILLIAM WEIBORNE & JY WEIBORNE as Joint tenants in 1/4 share; KINADD WILLIAM EVANS & PAPELA EVANS As Joint Tenants in 1/4 share & VICHAR TENANCE: (KINSWAY PLAZA) PIY. LIMITED (AN 065 542 332 in 1/4 share TENANCE: AS TENANS IN COMMIN dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferor who is personally known to me. INCIL OF THE CITY OF this 1/4" day of a Resolution of the day of
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(HE COMON SEAL of the CO SNOK WAS hereto affixed</li> <li>(August 1996 in pursuance of a Signature of Witness ancil passed on the</li> </ul>	sipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in the collowing ENCUMBRANCES 1 2 3 T TS (s713LGA) TW (sheriff) dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferor who is personally known to me UNCL OF THE CITY OF this 1st day of a Resolution of the day of
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<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(H) We cert</li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANDER WILSON & JLLE PRIRICIA WILSON as Joint transfs in 1/4 share; JEFFREY WILLIAM WEIGUNE & JOY WEIGUNE as Joint tenants in 1/4 share; KONID WILLIAM (Sheriff) WEIGUNE as Joint tenants in 1/4 share & VICBAR WEIGUNE as Joint tenants in 1/4 share & VICBAR (Sheriff) PARAMON AS JOINT Tenants in 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT Tenants in 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT Tenants in 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN 1/4 share & VICBAR HEANN & FAMELA EMANS AS JOINT TENANTS IN COMMN dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferor who is personally known to me. INTIL OF THE CITY OF this 1/4' day of a RESOLUTION of the day of K-LETTERS)- Colleman
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(H) We certify this of<td>eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in : bollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANDER WILSON &amp; JULE PAIRICIA WILSON as Joint tenants in 1/4 share; JEFFEY WILLIAM WEIBURNE &amp; JOY (s713LGA) WEIBURNE as Joint tenants in 1/4 share; KONED WILLIAM (sheriff) EVANS &amp; PAMELA EVANS As Joint Tenants in 1/4 share &amp; VICDAR THM (Sheriff) EVANS &amp; PAMELA EVANS As Joint Tenants in 1/4 share &amp; VICDAR tenants + (KINSWAY PLAZA) PIY. LIMITED (AON 065 542 332 in 1/4 share TENANCY AS TENANIS IN COMM dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. J.296 by the Transferor who is personally known to me. INCIL OF THE CITY OF this /st day of a Resolution of the day of K-LETTERS)- CULCEUR.</td></li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in : bollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANDER WILSON & JULE PAIRICIA WILSON as Joint tenants in 1/4 share; JEFFEY WILLIAM WEIBURNE & JOY (s713LGA) WEIBURNE as Joint tenants in 1/4 share; KONED WILLIAM (sheriff) EVANS & PAMELA EVANS As Joint Tenants in 1/4 share & VICDAR THM (Sheriff) EVANS & PAMELA EVANS As Joint Tenants in 1/4 share & VICDAR tenants + (KINSWAY PLAZA) PIY. LIMITED (AON 065 542 332 in 1/4 share TENANCY AS TENANIS IN COMM dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. J.296 by the Transferor who is personally known to me. INCIL OF THE CITY OF this /st day of a Resolution of the day of K-LETTERS)- CULCEUR.
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(HE COMIN SEAL of the OD SSNOK WAS hereto affixed</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(H) We certify the c</li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENEH ALEXANER WILSON & JILE PARKICIA WILSON as Joint TS (\$713LGA) TW EPOINE as Joint tenants in 1/4 share; ROWID WILLIAM EVANS & DANE AS Joint Tenants in 1/4 share & VICAR (sheriff) ENANGER (KINSWAY FLAZA) PTY. LIMITED (AN 065 542 332 in 1/4 share TENANCY AS TENANS IN COMM dealing correct for the purposes of the Real Property Act, 1900. DATED
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(H) We cert</li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENEHALEXANDER WILSON & JILE PARKICIA WILSON as Joint TS (\$713LGA) TW (Sheriff) Generation 1/4 share; JEFREY WILLIAM WEIBORNE & JOY WEIPCIANE as Joint tenants in 1/4 share; KONALD WILLIAM EMANS & PAMELA EMANS As Joint Tenants in 1/4 share & VICEAR (Sheriff) HEANS & PAMELA EMANS As Joint Tenants in 1/4 share & VICEAR (Sheriff) HEANS & PAMELA EMANS AS Joint Tenants in 1/4 share & VICEAR TENANGY+(KINEWAY FLAZA) PTY. LIMITED (AN 065 542 332 in 1/4 share TENANCY AS TENANIS IN COMMN dealing correct for the purposes of the Real Property Act, 1900. DATED .21. MAY. 1996 by the Transferer who is personally known to me. Signature of Transferer by the Transferee who is personally known to me.
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(H)</li></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANER WILSON & JLLE PAIRICIA WILSON as Joint TS (\$713LGA) TW (\$713LGA) TW (Sheriff) WILLIAM WELCOLAR & JOY (Sheriff) WILLIAM WELCOLAR & JOY MELCOLAR & JOH TEACH PRINTER WILLIAM WELCOLAR & JOY WELCOLAR & JOH TEACH PRINT IN 1/4 share; FONID WILLIAM (Sheriff) WILLIAM ENDINE & JOY THE ALEXAND AS JOINT TENANTS IN 1/4 share & VICBAR THE ALEXAND AS A DOINT TENANTS IN 1/4 share & VICBAR THE ALEXAND AS TENANTS IN COMMN dealing correct for the purposes of the Real Property Act, 1900. DATED .21. MAY. 1996 by the Transferor who is personally known to me. Signature of Transferor CENERAL MAYOPR by the Transferee who is personally known to me.
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>Signature of Witness</li> <li>Address of Witness</li> <li>MAXCR</li> <li>Signature of Witness</li> <li>Signature of Witness</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T (SINCUMBRANCES 1 2 3 (S713LGA) (STISLGA) (
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>Mame of Witness</li> <li>(BLOCH</li> <li>MAMCR</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>MAMCR</li> <li>Signature of Witness</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in : collowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANDER WILSON & JLLE PAIRICIA WILSON & Joint TS (s713LGA) TW (Sheriff) KENNET & Soint tenants in 1/4 share, CANNON & JOINT (Sheriff) KENNETH ALEXANDER WILSON & JLLE PAIRICIA WILSON & JOINT TW (Sheriff) KENNET & Soint tenants in 1/4 share, CANNON dealing correct for the purposes of the Real Property Act, 1900. DATED .21. MAY. 1996 by the Transferor who is personally known to me. MALL OF THE CHY OF this 1St day of a Resolution of the day of K-LETTERS)- Colleur. Signature of Transferor ENNER ANALESS OF TRANSFEROR by the Transferee who is personally known to me.
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(H) We certify this of</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>Signature of Witness</li> <li>Marke of Witness</li> <li>Signature of Witness</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in solution he land specified above transfers to the Transferee an estate in solution the land specified above transfers to the Transferee an estate in solution and the land specified above transfers to the Transferee an estate in solution TS (STI3LGA) TS (STI3LGA) TW (Sheriff) METEURE as Joint tenants in 1/4 share; KOND WILLIAM (Sheriff) METEURE as Joint tenants in 1/4 share; KOND WILLIAM METEURE as Joint tenants in 1/4 share & VICBAR (Sheriff) METEURE as Joint tenants in 1/4 share & VICBAR (Sheriff) METEURE as Joint tenants in 1/4 share & VICBAR METEURE (INCOMPACE) AS TENANS IN COMMN dealing correct for the purposes of the Real Property Act, 1900. DATED .21. MAY J996 Signature of Transferer GREMAL MANGER by the Transferee who is personally known to me. K LEFTERS) K LEFTERS)
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>THE COMON SEAL of the CO Signature of Witness</li> <li>Comme of Witness (BLOCH MAYCR Signature of Witness</li> <li>Name of Witness (BLOCH</li> </ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in solution he land specified above transfers to the Transferee an estate in solution belowing ENCUMBRANCES 1 2 3 T (STI3LGA) T (STI3LGA) TW (Sheriff) (Sheriff) dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1996 by the Transferer who is personally known to me. INCLL OF THE CHIY OF this 15t day of a Resolution of the day of K LETTERS) K LETTERS) K LETTERS) K LETTERS)
<ul> <li>(D) acknowledges rece and as regards th simple</li> <li>(E) subject to the for</li> <li>(F) TRANSFEREE</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>(G)</li> <li>(H) We certify this of</li> <li>Signed in my presence</li> <li>(H) We certify this of</li> <li< td=""><td>eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANER WILSON &amp; JILLE PAIRICIA WILSON as Joint TS (STAIGA) (STAIGA) TW ENDINE as Joint tenants in 1/4 share; ECNED WILLIAM (Sheriff) TH EXANS &amp; FAMELA EXANS As Joint Tenants in 1/4 share &amp; VICRAR WEIDINE as Joint tenants in 1/4 share &amp; VICRAR TH EXANS &amp; FAMELA EXANS As Joint Tenants in 1/4 share &amp; VICRAR (Sheriff) TH EXANS &amp; FAMELA EXANS AS JOINT TENANTS IN COMON dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1995 by the Transferor who is personally known to me. INCLL OF THE CITY OF this 1st day of a Resolution of the day of K LEFTERS)- K LETTERS) K LETTERS) K LETTERS) K LETTERS)</td></li<></ul>	eipt of the consideration of \$1.00 he land specified above transfers to the Transferee an estate in sollowing ENCUMBRANCES 1 2 3 T KENNETH ALEXANER WILSON & JILLE PAIRICIA WILSON as Joint TS (STAIGA) (STAIGA) TW ENDINE as Joint tenants in 1/4 share; ECNED WILLIAM (Sheriff) TH EXANS & FAMELA EXANS As Joint Tenants in 1/4 share & VICRAR WEIDINE as Joint tenants in 1/4 share & VICRAR TH EXANS & FAMELA EXANS As Joint Tenants in 1/4 share & VICRAR (Sheriff) TH EXANS & FAMELA EXANS AS JOINT TENANTS IN COMON dealing correct for the purposes of the Real Property Act, 1900. DATED21. MAY. 1995 by the Transferor who is personally known to me. INCLL OF THE CITY OF this 1st day of a Resolution of the day of K LEFTERS)- K LETTERS) K LETTERS) K LETTERS) K LETTERS)

Req:R7 © Offi	14879 /Doc:DL 3531031 /Rev:03-Nov-1997 /NSW LRS /Pgs:ALL /Prt:07-Nov-2022 19:44 /Seq:1 of 4 ce of the Registrar-General /Src:GlobalX /Ref:advlegs
2 L. 2	97-01T OFFICE OF STATE REVENUE (N.S.W. TREASURY) NB NB TRANSFER Real Property Act, 1900 STATE REVENUE (N.S.W. TREASURY) NB
	1996/97       Image: Sector of State Revenue use only         ALTERATION NOTED       Image: Sector of State Revenue use only         Image: Sector of Sector of State Revenue use only         Image: Sector of Sector
(A)	LAND TRANSFERRED Show no more than 20 References to Thile If appropriate, specify the share transferred. 1925/97 N12 ALTERATION NOTED ALTERATION NOTED
(B)	LT.O. Box OFFICE OF STATE REVENUE (N.S.W. TREASURY) 1993/97 N8 ALTERATION NOTED ALTERATION NOTED LT.O. Box Name, Address or DX and Telephone THOMAS KENYON & SON DX 435 SYL.LY PHONE: (02) 283 1765 REFERENCE (max. 15 characters): $5I - WELBOVENE$
(C)	TRANSFERORKENNETH ALEXANDER WILSON & JULIE PATRICIA WILSON as to a 0.5%share, RONALD WILLIAM EVANS & PAMELA EVANS as to a 2% share& VICBAR (KINGSWAY PLAZA) PTY LTD as to a 0.5% share
(D)	acknowledges receipt of the consideration of\$120,000.00 and as regards the land specified above transfers to the Transferee an estate in fee simple
(E)	subject to the following ENCUMBRANCES 1. 0.67896 2 3.
(F) (G)	TRANSFEREE       T         TS       JEFFREY WILLIAM WELBOURNE and JOY WELBOURNE         (s713 LGA)       TW         (Sheriff)       TENANCY: As Joint Tenants
(H)	We certify this dealing correct for the purposes of the Real Property Act, 1900. DATED 13.3.1996. Signed in my presence by the Transferor who is personally known to me. Signature of Witness JOHIN PATRICK QUINN. Name of Witness BLOCK LETTERS CHARLESTOWN SOLICITOR Address of Witness Please see Annexure "A"
	Signed in my presence by the Transferee who is personally known to me. Signature of Witness Name of Witness Name of Witness SOLICITOR Signature of Transferee SOLICITOR
	INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE CHECKED BY (office use out)
	Ausour Commercial and Edw Stationers 1991

Req:R714879 /Doc:DL 3531031 /Rev:03-Nov-1997 /NSW LRS /Pgs:ALL /Prt:07-Nov-2022 19:44 /Seq:2 of 4 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

THIS IS THE ANNEXURE "A" REFERRED TO IN THE TRANSFER OF KENNETH ALEXANDER WILSON & JULIE PATRICIA WILSON, RONALD WILLIAM EVANS & PAMELA EVANS & VICBAR [KINGSWAY PLAZA] PTY LTD AS TRANSFEROR AND JEFFREY WILLIAM WELBOURNE & JOY WELBOURNE AS TRANSFEREE

Signed in my presence by the Transferor who is personally known to me

Signature of Witness JOHN PATTER QUINN 5 LIBRARY LAUT Name of Witness "LETTERS] SOLICITOR

Address of Witness

Pan Evans

Signature of Transferor



The Common Seal of VICBAR [KINGSWAY PLAZA] PTY LTD [ACN 065 542 332] was hereunto affixed by authority of the Board of Directors made in accordance with the Articles of Association in the presence of:
# Mestpac Banking Corporation

ARBN 007 457 141 First Bank in Australia

NSW Service Centre 7 King Street Concord West NSW 2138

Telephone: (02) 9767-0000 Facsimile: (02) 9767-0612 Our Ref: Z91180896/Sasho Your Ref: John Quin

1 October 1997

Land Titles Office

To Whom it May Concern,

### RE: Evan, Wilson and Vicbar [Kingsway Plaza] Pty. Ltd. Transfer to Welbourne

We hereby authorise Hills Solicitors to link up registration of Transfer of Certificate of Title; Folio Identifier 136/869710 currently held at your office for production.

Thankyou for your assistance with the matter.

Should you have any further enquires please do not hesitate to contact me on (02) 9767 0308.

Yours faithfully,

Greg Hearne Quality Assurance Officer

Certificate of title is fooduced for the Registration of leases and a sub-lease. Due to lodgement of this letter the transfer has been registered and the title returned to 37% kg76 / 28/00/97

# Reg:R714879 /Doc:DL 3531031 /Rev:03-Nov-1997 /NSW LRS /Pgs:ALL /Prt:07-Nov-2022 19:44 /Seg:4 of 4 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs REGISTRATION DIRECTION ANNEXURE

Use this side only for First and Second Schedule directions

DO NOT USE BOTH SIDES OF THE FORM

## **FIRST SCHEDULE DIRECTIONS**

FOL	O IDENTIFIER	DIRECTION	DETAILS
136	869710	PROP	JEFFREY WILLIAM WELBOURNE AND JOY WELBOURNE AS JOINT
,			TENANTS IN 280/1000 SHARE, KENNETH ALEXANDER
			WILSON AND JULIE PATRICIA WILSON AS JOINT TENANTS
· · · · · · · · · · · · · · · · · · ·			IN 245/1000 SHARE, RONALD WILLIAM EVANS AND
			PAMELA EVANS AS JOINT TENANTS IN 230/1000 SHARE
			AND VICBAR (KINGSWAY PLAZA) PTY LTD IN 245/1000
	<u></u>		SHARE AS TENANTS IN COMMON
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# SECOND SCHEDULE AND OTHER DIRECTIONS

FOLIO IDENTIFIER	DIRECTION	NOTFN TYPE	DEALING NUMBER	DETAILS
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	STAMP DUTY	Office of State	e Revenue use only			NEW SOUTH 27-07-200 Section 1 Duty	WALES DUTY 1 8(2) \$ 1	/ 0000 <b>693524-</b> 001 :*************
(A)	TORRENS TITLE	If appropriate	, specify the part or	share transferred	136/869	710		
(B)	LODGED BY	lto box 35D	Name, Address or I MORRIS, HAY DX 420 SYDNEY Reference (optional	X and Telephone ES & EDGAR PH: 9232-241 ):	1 AGENTS	FOR	922( HAIZT	T TS (s713) TW (Sheriff,
(C)	TRANSFEROR	MAX CHI	RISTOPHER DON	JETTA				
(D) (E)		The tranferor a transfers to the Encumbrances	cknowledges receip transferee an estate (if applicable): 1	t of the considerati in fee simple. . 6452053	on of \$22,	500.00 and a	s regards the 3.	e land specified abo
(F) (G)	TRANSFEREE	KENNETH A a 77/100 WELBOURN VICBAR (1 share as <b>TENANCY:</b>	ALEXANDER WILS 0 share as ten E as joint ten KINGSWAY PLAZ tenant in com	SON and JULIE hants in comm hants as to a A) PTY. LTD. mmon	2 PATRICI 100n, JEFF 1 77/1000 (A.C.N.	A WILSON a REY WILLIA share as 065 542 33	s joint M WELBOU tenants 2) as to	tenants as to RNE and JOY in common and a 76/1000
(H)	We certify this de Signed in my pre	ealing correct for sence by the tra	or the purposes of th nsferor who is perso	e Real Property Ac onally known to me	zt 1900. e.	<b>DATE:</b> 28、	JUNE 200	1
	Signature of with	ess: A.(	Galluc	Signa	ature of tran	sferor:		
	Name of witness: Address of witne	ss: 17/2 Syc	3ELA GA 2 Marke Uney 20x	HUCCI +St., 20.	11.7	n -	<u> </u>	
	Signed in my pre	sence by the tra	nsferee who is pers	onally known to me	<del>.</del>			
	Signature of witn	ess:		Signa	ature of trans	sferee:		
	Name of witness: Address of witne	ss:		If sig	gned on the eyancer, she	transferee's by w the signatory	ehalf by a 's full name	solicitor or licens and capacity belov

A set of notes on this form (97-01T-2) is available from the Land Titles Office.

Page 1 of  $\frac{1}{1}$  number additional pages sequentially

Checked by (LTO use): 83

	Form: 01T Release: 2.1 www.lpi.nsw.go	v.au Re	RANSFER New South Wales al Property Act 1900	9758126V	<b>]]</b> ]
	ATME BUTY	PRIVACY NOTE: this information is le	gally required and will b	ecome part of the public record	
	SIAMP DUIT	Office of State Revenue use only		NEW SOUTH NALES DUTY 04-07-2003 00012609 Section 18(2)	24-0
(A)	TORRENS TITLE	F I 136/869710		ը օրդ է հետությունները մեն օրդ	141-141 (F)
(B)	LODGED BY	Delivery Box 고군도 REAGH Reference:	nd Telephone ★ CREAGH	CODES T TW (Sheriff)	
(C) <sup>~</sup>	TRANSFEROR	Jeffrey William Welbourne Julie Patricia Wilson, Vi	e, Joy Welbourne, .cbar (Kingsway Pl	Kenneth Alexander Wilson, aza) Pty Ltd [ACN 065 543 332]	~
(D)	CONSIDERATION	The transferor acknowledges receipt of	the consideration of \$ 3.	400,000.00 and as regar	rds
(E)	ESTATE	the land specified above transfers to t	he transferee an estate in f	fee simple	
(F)	SHARE TRANSFERRED				
(G)	HUMOI ERRED	Encumbrances (if applicable):			
(H)	TRANSFEREE	George Vrachliotis, Mari tenants-in-common of a o 002 888 6551 as to a one	a Vrachliotis and ne third share, Vo third share, and	Natasha Vrachliotis as otraint No 124 Pty Limited [ACN G & M Musumeci Pty Limited	
		[ACN 001 382 725] as to	a one third share		
<b>(I)</b>		[ACN 001 382 725] as to <b>TENANCY:</b> Tenants in Commo	a one third share n		
(I) (J)	date 16	[ACN 001 382 725] as to TENANCY: Tenants in Commo December 2002	a one third share n		
(I) (J)	DATE 16 I certify that the I am personally otherwise satisfi	[ACN 001 382 725] as to TENANCY: Tenants in Commo Decenter 2002 person(s) signing opposite, with whom acquainted or as to whose identity I am ed, signed this instrument in my present	a one third share n Certified c Property A ce.	correct for the purposes of the Real Act 1900 by the transferor.	
(I) (J)	DATE 16 I certify that the I am personally otherwise satisfi Signature of wit	[ACN 001 382 725] as to TENANCY: Tenants in Commo Decorder 2002 person(s) signing opposite, with whom acquainted or as to whose identity I am ed, signed this instrument in my present ness:	a one third share n Certified c Property A ce. Signature	correct for the purposes of the Real Act 1900 by the transferor. of transferor:	
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17

THIS IS THE ANNEXURE "A" REFERRED TO IN TRANSFER MADE BETWEEN KENNETH ALEXANDER WILSON, JULIE PATRICIA WILSON, JEFFREY WILLIAM WELBOURNE, JOY WELBOURNE, AND VICBAR [KINGSWAY PLAZA] PTY. LTD. [A.C.N. 065 542 332] AS TRANSFEROR OF THE ONE PART AND GEORGE VRACHLIOTIS, MARIA VRACHLIOTIS, NATASHA VRACHLIOTIS, VOTRAINT NO. 124 PTY. LIMITED [A.C.N. 002 888 655] AND G. & M. MUSUMECI PTY. LIMITED [A.C.N. 001 382 725] AS TRANSFEREE OF THE OTHER PART

I certify that the person signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence. Certified correct for the purposes of the Real Property Act 1900 by the Transferor.

Signature of Witness: & Doburg

Name of Witness: Kalen Dobing

Address of Witness:

15 Bloomfield St. Stanford Merthyl

I certify that the person signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of Witness: X. Obung

Name of Witness: Kalen Dobing

Address of Witness: 15 Bloomfield St. Stanford Merthyr Property Act 1900 by the Transferor.

Certified correct for the

purposes of the Real

Signature of Transferor: JULIE PATRICIA WILSON

fl Wilson

Page 2 of 3

Signature of Transferor: KENNETH ALEXANDER WILSON

KANK

Req:R714877 /Doc:DL 9758126 /Rev:08-Jul-2003 /NSW LRS /Pgs:ALL /Prt:07-Nov-2022 19:44 /Seq:3 of 3 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

> I certify that the person signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the Transferor.

Signature of Witness: Bluinton Name of Witness: John Quinton

Signature of Transferor: JEFFREY WILLIAM WELBOURNE

Address of Witness: 14/ Alexandra Arg J. Welloume Remardado,

I certify that the person signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of Witness: follicintan Name of Witness: Jorn Printer Address of Witness: 41 Maxmans Arg Reconcedor,

Certified correct for the purposes of the Real Property Act 1900 by the Transferor.

EXECUTED by VICBAR [KINGSWAY PLAZA] PTY. LTD. [A.C.N. 065 542 332] by:-

Signature of authorised persøn:/ MUMM

Name of authorised person: VICTORIO GAETANO MANITTA

Office held: Director

Signature of authorised person:

Name of authorised person: BARBARA MANITTA

Office held: Secretary

Page 3 of 3

#### **System Document Identification**

Form Number:01T-e Template Number:t\_nsw18 ELN Document ID:802830704 ELN NOS ID: 802830706

# TRANSFER

New South Wales Real Property Act 1900 Land Registry Document Identification



#### Stamp Duty: 10249310-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

#### LODGED BY:

GEORGE GOURLAS LAWYER ABN 43619602185
SE 1, 64 Croydon ST Cronulla 2230
george@gglawyer.com.au
1452022
506819V
1W
1885 Vrachlioti

#### LAND TITLE REFERENCE

136/869710

#### TRANSFEROR

G & M MUSUMECI PTY LIMITED ACN 001382725 Registered company

Total share transferred: 4/12

#### TRANSFEREE

GEORGE VRACHLIOTIS Share of whole of land/interest: 3/ 12 MARIA VRACHLIOTIS Share of whole of land/interest: 3/ 12 VOTRAINT NO 124 PTY LIMITED ACN 002888655 Registered company Share of whole of land/interest: 6/ 12 Tenancy: Tenants in Common

#### CONSIDERATION

The transferor acknowledges receipt of the consideration of \$1,300,000.00

#### **ESTATE TRANSFERRED**

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

#### SIGNING FOR TRANSFEROR

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- **3.** The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferor or his, her or its administrator or attorney.

#### Party Represented by Subscriber:

**G & M MUSUMECI PTY LIMITED** 

Signed By: Kevin Rodgers ELNO Signer Number: 51132 Signer Capacity: Practitioner Certifier Digital Signing Certificate Number:

Signed for Subscriber:

KEVIN RODGERS ABN 42189357639

**BROCK PARTNERS LAWYERS** 

Subscriber Capacity:Representative Subscriber ELNO Subscriber Number: 22535

Customer Account Number:502504

Date: 15/11/2021

SIGNING FOR TRANSFEREE

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- 3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferee or his, her or its administrator or attorney.

#### Party Represented by Subscriber:

**GEORGE VRACHLIOTIS** MARIA VRACHLIOTIS VOTRAINT NO 124 PTY LIMITED

Signed By: George Go	urlas	Signer Capacity: Practitioner Certifier
ELNO Signer Number: 4017121		Digital Signing Certificate Number:
Signed for Subscriber:	GEORGE GOURLAS LAW	YER PTY LTD ABN 43619602185

GEORGE GOURLAS LAWYER

Subscriber Capacity: Representative Subscriber ELNO Subscriber Number: 1452022 Date: 15/11/2021

Customer Account Number:506819

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		Read Property Act, 1900
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1	Show no more than 20 References to Title. If appropriate, specify the share transferred.	22/544418
(9) 1		
(D) I		L.T.O. Box Name, Address or DX and Telephone
		1960
		REFERENCE (max. 15 characters): 202796271
(C) ]	TRANSFEROR	WILLIAM PETER CLEAVES
	anatorio della della Nel tradicio della del	
(D) a	acknowledges receipt of the consideration	ion of EIGHTY. FIVE THOUSAND DOLLARS (\$85,000.00).
a	and as regards the land specified above	transfers to the transferee an estate in fee simple
(E) S	subject to the following ENCUMBRAN	CES 1 3
	and the second	
( <b>Э</b> Т		
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A) LAND TRANSFERRED Show we mate that 2 Reference is Tile. Laporenses a Tile. Lapore		97-01T	TRANSFER Real Property Act, 1900
A) LAND TRANSFERRED         Show we prove than 20 References to Tide trappropriate, specify the share transferred.         FOLIO IDENTIFIERS 1/702372, 1AND GRANT VOLIDER 1540 FOLIO 136, FOLIO IDENTIFIER 22/544418, VOLUME 6425 FOLIO 136, FOLIO IDENTIFIER 22/544418, VOLUME 6425 FOLIO 156 AND FOLIO IDENTIFIER 10/20/758590 & 21/544418         B) LODGED BY       Image: Comparison of the consideration of the considerat		OFFICE OF STATE ALVENUE N.S.W. IREASUANI ISSU25 SS NO ALTERNICEMENTED	OFFICE OF DELET REVENUE 199495 STAND OCCUPANT THEORDURY N8 DUTY \$ 2.00 NOT RECARD S00149214
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37       WBC         PLEASE SEE THE ANNEXURE "A" HERETO         D) acknowledges receipt of the consideration of	B)	LODGED BY	NOW EFING         2         2         7         7         9         1         3         2         1         5         8         9         .           LT.O. Box         Name, Address or DX and Telephone         Name, Addres Address
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D) acknowledges receipt of the consideration ofS701,250.00.         and as regards the land specified above transfers to the Transferce an estate in fee simple       0         g:       subject to the following ENCUMBRANCES       1	C)	TRANSFEROR	PLEASE SEE THE ANNEXURE "A" HERETO
F) TRANSFEREE       PLEASE SEE THE ANNEXURE "A" HERETO         G)       PLEASE SEE THE ANNEXURE "A" HERETO         G)       TENANCY:         H) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATED	D) E)	acknowledges receipt of the considera and as regards the land specified abov subject to the following <b>ENCUMBRAN</b>	tion of $\$701,250.00$ e transfers to the Transferee an estate in fee simple ICES 1. $V895662$ 4 4 5.
H) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATED       27.1.95         Signed in my presence by the Transferor who is personally known to me.       As to Execution by the Transferor please see the Annexure "A" hereto         Signature of Witness         Name of Witness (BLOCK LETTERS)         Signature of Transferoe who is personally known to         Address of Witness         Signature of Transferoe who is personally known to         As to Execution by the Transferee who is personally known to         As to Execution by the Transferee please see the Annexure "A" hereto         Signature of Witness         Signature of Witness         Signature of Witness         Mame of Witness (BLOCK LETTERS)         Name of Witness (BLOCK LETTERS)         Name of Witness (BLOCK LETTERS)	(F) (G)	TRANSFEREE	PLEASE SEE THE ANNEXURE "A" HERETO
Signature of Witness Name of Witness (BLOCK LETTERS) Address of Witness Signed in my presence by the Transferee who is personally known to As to Execution by the Transferee please see the Annexure "A" hereto Signature of Witness Name of Witness (BLOCK LETTERS)	H)	We certify this dealing correct for the Signed in my presence by the Transfer As to Execution by the Tr	purposes of the Real Property Act, 1900. <b>DATED</b> 27. 1.95 ror who is personally known to me. cansferor please see the Annexure "A" hereto
Name of Witness (BLOCK LETTERS)         Address of Witness         Signature of Transferror         Signature of Transferror         OFFICE         OFFICE         Signature of Transferror         Signature of Witness         Signature of Witness         Name of Witness (BLOCK LETTERS)		Signature of Witness	; 
Signed in my presence by the Transferee who is personally known to As to Execution by the Transferee please see the Annexure "A" hereto Signature of Witness Name of Witness (BLOCK LETTERS)		Name of Witness (BLOCK Li Address of Witness	Signature of Transferor
Signature of Witness Name of Witness (BLOCK LETTERS)		Signed in my presence by the Transfe As to Execution by the Tr	ree who is personally known to ransferee please see the Annexure "A" hereto x623990 1/224471/
Name of Witness (BLOCK LETTERS)		Signature of Witness	065 1 675 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1
		Name of Witness (BLOCK L	ETTERS)

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Req:R727129 /Doc:DL 0067894 /Rev:09-Mar-2010 /NSW LRS /Pgs:ALL /Prt:09-Nov-2022 15:05 /Seq:2 of 5 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

> THIS IS THE ANNEXURE "A" TO MEMORANDUM OF TRANSFER MADE BETWEEN KENNETH ALEXANDER WILSON AND JULIE PATRICIA WILSON, JEFFREY WILLIAM WELBOURNE AND JOY WELBOURNE AND RONALD WILLIAM EVANS AND PAMELA EVANS /AS TRANSFEROR OF THE ONE PART AND KENNETH ALEXANDER WILSON AND JULIE PATRICIA WILSON, JEFFREY WILLIAM WELBOURNE AND JOY WELBOURNE AND RONALD WILLIAM EVANS AND PAMELA EVANS AND VICBAR [KINGSWAY PLAZA] PTY. LTD. [A.C.N. [A.C.N. 065 542 332] AS TRANSFEREE OF THE OTHER PART AND DATED 27-195

(C) TRANSFEROR

KENNETH ALEXANDER WILSON and JULIE PATRICIA WILSON, JEFFREY WILLIAM WELBOURNE and JOY WELBOURNE, RONALD WILLIAM EVANS and PAMELA EVANS as tenants in common and GARTROM PTY. LIMITED (A.C.N. 003 684 393)

(F) TRANSFEREE

<u>KENNETH ALEXANDER WILSON</u> and <u>JULIE PATRICIA WILSON</u> as joint tenants as to a ½ share as tenants in common, <u>JEFFREY WILLIAM</u> <u>WELBOURNE</u> and <u>JOY WELBOURNE</u> as joint tenants as to a ½ share as tenants in common, <u>RONALD WILLIAM EVANS</u> and <u>PAMELA EVANS</u> as joint tenants as to a ½ share as tenants in common, and <u>VICBAR</u> [KINGSWAY PLAZA] PTY. LTD. [A.C.N. 065 542 332] as to a ½ share as tenant in common.

TENANCY: Tenants in Common

We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATED:

1995

 $\sim$ 

Signed in my presence by the Transferor <u>KENNETH ALEXANDER WILSON</u> and <u>JULIE PATRICIA WILSON</u> who are personally known to me:-

Signature of Witness ... JOHN/PATRICK QUINN ..... Name of SWLIDDARRY BLOOK LETTERS CHARLESTOWN Address of Witness

K.H. Mihn

Signature of Transferor

Req:R727129 /Doc:DL 0067894 /Rev:09-Mar-2010 /NSW LRS /Pgs:ALL /Prt:09-Nov-2022 15:05 /Seq:3 of 5 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

- 2 -

Signed in my presence by the Transferor <u>JEFFREY WILLIAM</u> WELBOURNE and JOY PATRICIA WELBOURNE who are personally known to me:-Signature bf Witness Wellow IOHN PATRICK OLINNETTERS Name of LANE CHARLESTOWN . gnature of Transferor Address of SOLtGeBOR Signed in my presence by the Transferor RONALD WILLIAM EVANS and PAMELA EVANS personally known to me :-. . . . . . . . . Signature of Witness K.W.Euron JOHN PATRICK QUINN WELLBRAR BLOCK LETTERS Name of CHARLESTOWN ..... SQLICITOR. . ature of Transferor Address of Witness Common inano . . . . . . . . . . . . . . . . Scal The Common Seal of GARTROM PTY. LINETED (A.C.N. 003 684 393) was hereunto atrixed by authority of the Board of Directors made in accordance with the Articles of Association by:-Director lon Secretary Signed in my presence by the Transferee KENNETH ALEXANDER WILSON and JULIE PATRICIA WILSON who are personally known to me:-TTTT .... Signature of Witness K.A. Milin .... JOHN PATRICK QUINN ..... Name of Witgeser REPOKANETTERS CHARLESTOWN Address of Witness lignature of Transferee . . . . . . . . .

Req:R727129 /Doc:DL 0067894 /Rev:09-Mar-2010 /NSW LRS /Pgs:ALL /Prt:09-Nov-2022 15:05 /Seq:4 of 5 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

- 3 -

Signed in my presence by the Transferee <u>JEFFREY WILLIAM</u> WELBOURNE and <u>JOY WELBOURNE</u> who are personally known to me:-

Signature of Witness ... IQHN PATRICK QUINN Name 51 BEARY LANE CHARLESTOWN ..... SOLICITOR ..... Signature of Transferee Address of Witness Signed in my presence by the Transferee RONALD WILLIAM EVANS and PAMELA EVANS who are personally known to me :-

Sighature of Witness JOHN PATRICK QUINN Name of WSUHBBARELOCKELETTERS **CHARLESTOWN** ..... SOLICITOR..... Address of Witness

R.W. Evan

Jam Evans Signature of Transferee

The Common Seal of <u>VICBAR [KINGSWAY</u> <u>PLAZA] PTY. LTD.</u> [A.C.N. 065 542 332] was hereunto affixed by authority of the Board of Directors made in accordance with the Articles of Association by:-

Director etary VICBAR KINGSWAY PLAZA TY. LTD. A.C.N. 5 542 3

Req:R727129 /Doc:DL 0067894 /Rev:09-Mar-2010 /NSW LRS /Pgs:ALL /Prt:09-Nov-2022 15:05 /Seq:5 of 5 © Office of the Registrar-General /Src:GlobalX /Ref:advlegs

# TITLE REFERENCE UPDATE ANNEXURE

Dealing Number 067894

-

TITLE REFERENCE	NOW BEING
1540-138	13/20/758590
6425-156	12/20/758590
	1/702372
	2/702372
	22/544418
	21/544418
	10/20/758590
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Office of the	Registrar-General /Src:GlobalX /Ref:	advlegs	
	STAMP BUTY Se Instr	TRANSFER REAL PROPERTY ACT, 1900 ructions for Completion on back of form	$ \begin{array}{ c c } \hline C &   & \circ &   \\ \hline s & 2 \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{ c c } \mathcal{R} & \mathcal{R} \\ $
u ante en la sector de la securio la companya de la securio Martín de securio de la securio de	Torrens Title Reference	If Part Only, Delete Whole and Give Details	Location
			Vinani Vinani
Note (a)	Identifier 1/702372	WHOLE	Aulii Aulii
	Identifier 2/702372	whole	Kurri Kurri
Note (b)	THE COUNCIL OF THE CITY	OF GREATER CESSNOCK	
		75.000.00	
ESTATE Note (c)	and transfers an estate in fee simple		
TRANSFEREE	in the land above described to the TRANSFEREE		OFFICE USE ONLY
Note (d)	SANRIJ PTY, LIMITED a C its registered office a	ompany duly registered and i t 176A Lang Street, Kurri K	naving urri
$\bullet$			
TENANCY			
Note (e)	as joint tenants/tenants in common		
ENCUMBRANCES	2.	3.	
4-	DATE 16/2/1984		
	We hereby certify this dealing to be correct for the pu	rposes of the Keal Property Act, 1900.	
EXECUTION Note (g)	Signed in my presence by the transferor who it perform THE COMMON SEAL of the COUNC	illy known to me. IL OF THE )	11 .
	CITY OF GREATER CESSNOCK was	hereto)	Milla.
	of the Council passed on the	) Mayor	1 1
	day of August 1984 1.		Prop. 1
	Address and comparison of Wilness	) Deputy Town Clei	rk Signature of Transferor
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Note (g)	Signed in my presence by the transferee who is personal	ly known to me	
	Signature of Witness		
			2
	Name of Witness (BLOCK LETTERS)		2 IT Manuel
	Address and occupation of Witness		Signature of Transferee
		Solui	to for Transferre
TO BE COMPLETED	LODGED BY	Lo	CATION OF DOCUMENTS
BY LODGING PARTY Notes (h)	199 estpac Banking Corpora	tion	1 Summer D
anu (1)	SYDNEY 2000 PHONE 226 PITT	STREET,	In R.G.O. with
		속 관광 관계 영화관	Produced by
	Delivery Box Number		
OFFICE USE ONLY	Checked Passed REGISTERED 28 - (	6-1984	
	EBIS.		
朝代1999年中期11日 (1997) (1997)	Signed Extra Fee		LP
	Registrar Ge	neral	

OF	STAMP DUTY FICE OF STATE REVENUE (N.S.W. TREASURY)	16 NGY 1989	Y56265
1 втамр	9\$8/89 NG D U T CHIEF COMMISSIONER	TRANSFER REAL PROPERTY ACT, 1900	T 3 5 or 7 × \$ 444
DESCRIPTION OF LAND Note (a)	Torrens Title Reference VOLUME: 11463, - NOW FOLIO: 191, IDENTIFI FOLIO IDENTIFIER: 1/ FOLIO IDENTIFIER: 2/	If Part Only, Delete Whole and WHOLE FOLIO IER: 21/544418 /702372 /702372	Give Details Location           At:         KURRI KURRI
TRANSFEROR Note (b)		l	
ESTATE Note (c)	(the abovenamed TRANSFEROR) hereb and transfers an estate in fee simple	by acknowledges receipt of the consideration of \$1	,700,000.00
TRANSFEREE Note (d)	in the land above described to the TRAN <u>KENNETH ALEXANDER WILSON of</u> 24 same address, his wife, as jo <u>WILLIAM WELBOURNE</u> of 24 Kenner wife, as joint tenants as to a	NSFEREE 24 Greta St, Kurri Kurri, Pharmacist and <u>wint tenants as to a one-thind share as</u> dy St, Kurri Kurri, Butcher, and <u>JOY WE</u> a one-thing share as tenants in common	LULTE PATRICIA WILSON of the OFFICE USE ONLY tenants in common AND GEOFFREY LBOURNE of the same address, his AND RONALD WILLTAM FUANS of 72
ENANCY lote (e)	Heddon St, Kurri Kurri, Busing a <del>s joint tenants/tenants in common</del>	ess Proprietor and <u>PANELA EVANS</u> of the tenants as to a one-third share as t	some address, his wife, as joint OUC enants in common.
HIUH NCUMBRANCES Iole (f)	subject to the following PRIOR ENCUMI 2	IBRANCES 1. HTT LEASES Nod. V.6 ; Y122418; Y122419 As to	3956627 W516450; W516451; W693637 Lot 21 DP 544418 No.X865928
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HIUH NCUMBRANCES Iole (I) XECUTION Iole (g) ote (g) OBE COMPLETED I LODGING PARTY Jets (h) Id (I)	Subject to the following PRIOR ENCUMI 2	BRANCES 1. HT. LEASES. Nod V.E Y122418; Y122419 As to Y122418; Y122419 As to issue to personally known to me ARNAL PTY. LIMITED ) in. accordance ) f Association in ) in. accordance ) in. accordance ) in. accordance )	B956622. W5164502. W5164512 W693637. b Lot 21 DP 544418 No.X865928 Director Common Secretary Secretary Common Sollicitor For Transferees DAVID HITCHCOCK SOLICITOR ADAMSTOWN LOCATION OF DOCUMENTS OTHER Herewith. In L.T.O. with
PHILUH ENCLIMBRANCES Note (f) EXECUTION Note (g) Note (g) Note (g) FO BE COMPLETED BY LODGING PARTY Votes (h) and (l)	subject to the following PRIOR ENCUMI 2	BRANCES 1. HT LEASES Nod. VE Y122418; Y122419 As to rect for the purposes of the Real Property Act, 1900 rwho is personally known to me ARNAL PTY. LIMITED ) inaocordance ) f Association in ) s who is personally known to me inaocordance ) f Association in ) s who is personally known to me inaocordance ) f Association in ) s inaocordance ) f Association in ) inaocordance )	B9566.21. W516.4501. W516.4511: W693631 b Lot 21 DP 544418 No.X865928 Director Director Secretary Secretary Solicitor. For TRANSFEREES DAVID HITCHCOCK SOLICITOR ADAMSTOWN LOCATION OF DOCUMENTS OTHER Herewith. In L.T.O. with Produced by Solicitation of Documents OTHER

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- 	(E) DIRECTION (FT TYPE IN UTEN (FT TYPE (F) DEALING (H) DEALING (H) DEALING	(0) FOLIO IDENTIFIER
+	SECOND SCHEDRLE AND OTHER DIRECTIONS	
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	Kennelk A. Wilson grille Relien as Jend Konand in 1.3 shore	
	(B) DIFECTION (C) NAME	АЭГТІГО ІОЕИТІГІЕЙ
[	FIRST SCHEDULE DIRECTIONS	

OFFICE USE ONLY

(i) The lodging party is to complete the LOCATION OF DOCUMENTS panel. Place a tick in the appropriate box to indicate the whereabout of the Certificate of Title. List, in an abbreviated form, other documents lodged, e.g., stat. dec. for statutory declaration, pbts for probate, L/A. for letters of administration, &c. (h) insert the name, postal address, Document Exchange reference, telephone number and delivery box number of the lodging party.

CORPORATION (v) If the transfer is executed by a corporating of the static field include a statement that the seal has been properly affixed, e.g., in accordance with the Articles of Association of the corporation.

 (i) Provid thefe be insufficient space for the exocution of this dealing, use an annexue sheet.
 (ii) The confluctant constraints a dealing in the presence of an adult winess. not being a part you we use the observation of this dealing, use an annexue sheet.
 (i) The confluctant constraints a dealing in the presence of an adult winess. not being a part of the transfer and the presence of an adult winess. not being a part of the transfer and the presence of an adult winess. not being a part of the transfer and y aguature. Any person falsely of the transfer and y aguature and y and the presence of an adult winess. The presence of an adult winess. The second part of the transfer and y aguature. Any person falsely of the transfer and y aguature and y aguature. Any person falsely of the transfer and y aguature and y aguature. Any person falsely of the transfer and y aguature proveded by accinon to the transfer and y aguature. Any person falsely of the transfer and y aguature proveded by accinon to the transfer and y aguature. Any person falsely of the transfer and y aguature and y aguature and y aguature. Any person falsely of the transfer and y aguature and y aguature and aguature. Any person falsely of the transfer and y an alterney to the transfer present of a part of the transfer and y aguature. Any person falsely of the transfer and y agaitant and the transfer and a part of the transfer and aguature and transfer the second of accinon to the transfer and agaitant and agaitant and the transfer and agaitant and agaitant and agaitant and the transfer and agaitant and the transfer and transfer the agaitant and and the transfer and agaitant adaitant and agaitant and adaitant and agaitant and adaitant and and adaitant and and adaitant and adaitant and and adaitant adaitant and adaitant adaitant and adaitant and adaitant and adaitant adaitant anot adaitant adaitant adaitant adaitant and adaitant adaitant a YTIROHTUA YENROTTA

(f) In the memorandum of prior encumbrances, state only the registered number of any mortgage, lease, charge or writ to which this dealing is subject.

**УЛЛА**РЭИЭО (d) Execution:

:bnel to notiginosed (a)

Synald the que blanks.

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. The following instructions relate to the SIDE NOTES on the form.

Insemmaryoo lecal off to AAYSC bris YSC encipae cele esC. 38, nothor, tedmun and plat to ent the full of and plat by work of a state of the Local of the Local Solver to ent to ent to plat and the round of the Local Solver to ent to ent to plat and the round of the Local Solver to enter the round of the

(e) Delete if only one transferee. It more than one transferee, delete either "joint tenants" or "tenants in common", and, it the transferees hold as tenants in common, state the

If the space provided is insufficient, additional sheets of the same size and quality of paper and having the same marging as this form should be used. Each additional sheet must be identified as an annexure and signed by the parties and the attesting witnesses.

INSTRUCTIONS FOR COMPLETION

(d) Show the full name, address and occupation or description of the transferee(s).

(i) TORRENS TITLE REFERENCE. — For a manual reference insert the Volume and Folio (e.g., Vol. 8514 Fol. 126) — For a computer follo insert the folio identifier (e.g., 12/701924).

Alterations are not to be made be easure; the words rejected are to be ruled through and initialled by the parties to the defining in the left-hand margin.

(a) Show the full name of the transferor(s). (iii) LOCATION. – Insert the locality shown on the Certificate of Tille/Crown Grant, e.g., at Chulture 11 the locality is not about the Parabit and Country, e.g., Ph. Liamore Co. Rout

If it is intended to create essements, covenants, &c., use forms RP13B, RP13B, RP13C as appropriate.

דעפשאילווסם מתל המחלשיונותם should be clear, togible מחל in permanent dense black or dark blue non-copying ink. This dealing should be marked by the Cominissioner of Stamp Duties before ledgment by hand at the Land Titles.

(c) If the estate being transforred is a lesser ostate than an estate in tee simple, delete "teo simple" and Insert appropriate estate.







SEARCH DATE ------7/11/2022 7:29PM

FOLIO: 2/702372

\_\_\_\_

First Title(s): VOL 1875 FOL 114 Prior Title(s): VOL 12897 FOL 223

corded	Number	Type of Instrument	C.T. Iss	sue
/3/1984	DP702372	DEPOSITED PLAN	FOLIO CH EDITION	REATED
/6/1984	V213757	TRANSFER	EDITION	2
/1/1985 /1/1985	V549720 V549721	TRANSFER MORTGAGE	EDITION	3
/8/1985 /8/1985 /8/1985 /8/1985 /8/1985	V895660 V895661 V895662 V895663 V895664	LEASE LEASE LEASE LEASE LEASE	EDITION	4
/8/1985	V896485	CAVEAT		
/9/1986 /9/1986 /9/1986	W516449 W516450 W516451	WITHDRAWAL OF CAVEAT LEASE LEASE	EDITION	5
/1/1987 /1/1987	W540227 W693637	LEASE LEASE	EDITION	6
/7/1988 /7/1988	X689066 X623990	DEPARTMENTAL DEALING LEASE	EDITION	7
/1/1989 /1/1989 /1/1989	Y122417 Y122418 Y122419	LEASE LEASE LEASE	EDITION	8
/4/1989	Y242811	CAVEAT		
12/1989 12/1989 12/1989 12/1989 12/1989	Y562655 Y562657 Y562656 Y562659	WITHDRAWAL OF CAVEAT DISCHARGE OF MORTGAGE LEASE TRANSFER	EDITION	9
12/1989 12/1989	Y562660 Y562661	MORTGAGE MORTGAGE	EDITION	10
	corded /3/1984 /6/1984 /1/1985 /1/1985 /8/1985 /8/1985 /8/1985 /8/1985 /8/1985 /8/1985 /8/1985 /8/1985 /9/1986 /9/1986 /9/1986 /9/1986 /9/1986 /1/1987 /1/1987 /1/1987 /1/1987 /1/1988 /1/1989	CordedNumber/3/1984DP702372/6/1984V213757/1/1985V549720/1/1985V549721/8/1985V895660/8/1985V895661/8/1985V895662/8/1985V895663/8/1985V895664/8/1985V895664/8/1985V895664/9/1986W516449/9/1986W516450/9/1986W516451/1/1987W540227/1/1987W540227/1/1987W540337/7/1988X689066/7/1988X689066/7/1989Y122417/1/1989Y122418/1/1989Y122418/1/1989Y122419/4/1989Y24281112/1989Y56265512/1989Y56265612/1989Y56266012/1989Y56266012/1989Y562661	Derded       Number       Type of Instrument         '3/1984       DP702372       DEPOSITED PLAN         '6/1984       V213757       TRANSFER         '1/1985       V549720       TRANSFER         '1/1985       V549720       TRANSFER         '1/1985       V549721       MORTGAGE         '8/1985       V895661       LEASE         '8/1985       V895662       LEASE         '8/1985       V895663       LEASE         '8/1985       V895664       LEASE         '8/1985       V896485       CAVEAT         '9/1986       W516450       LEASE         '1/1987       W540227       LEASE         '1/1987       W693637       LEASE         '1/1988       X689066       DEPARTMENTAL DEALING         '7/1988       X689066       DEPARTMENTAL DEALING         '1/1989       Y122417       LEASE         '1/1989       Y122418       LEASE	borded         Number         Type of Instrument         C.T. Iss           '3/1984         DP702372         DEPOSITED PLAN         FOLIO CF           '6/1984         V213757         TRANSFER         EDITION           '1/1985         V549720         TRANSFER         EDITION           '1/1985         V549720         TRANSFER         EDITION           '1/1985         V895660         LEASE         EDITION           '8/1985         V895661         LEASE         EDITION           '8/1985         V895661         LEASE         EDITION           '8/1985         V895664         LEASE         EDITION           '8/1985         V895664         LEASE         EDITION           '8/1985         V895664         LEASE         EDITION           '8/1985         V895664         LEASE         EDITION           '8/1986         W516450         LEASE         EDITION           '9/1986         W516451         LEASE         EDITION           '1/1987         W693637         LEASE         EDITION           '1/1988         X689066         DEPARTMENTAL DEALING         EDITION           '1/1989         Y122417         LEASE         EDITION

END OF PAGE 1 - CONTINUED OVER

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PRINTED ON 7/11/2022

#### SEARCH DATE -----7/11/2022 7:29PM

# FOLIO: 2/702372

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
13/5/1992	E278469	LEASE	EDITION 11
4/9/1992	E736682	MORTGAGE	EDITION 12
10/3/1995 10/3/1995 10/3/1995	067889 067890 067891	DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE	EDITION 13
13/3/1995 13/3/1995 13/3/1995	067892 067893 067894	LEASE LEASE TRANSFER	EDITION 14
14/3/1995	067896	MORTGAGE	EDITION 15
12/2/1996	0900501	LEASE	EDITION 16
24/7/1997	3259622	SURRENDER OF LEASE	
25/7/1997	DP869710	DEPOSITED PLAN	FOLIO CANCELLED
15/9/1999	6197230	DEPARTMENTAL DEALING	

\*\*\* END OF SEARCH \*\*\*

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FOLIO: 22/544418

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First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 11463 FOL 192

Recorded	Number	Type of Instrument	C.T. Issue
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
18/7/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
15/7/1992 15/7/1992 15/7/1992	E607598 E607599 E607600	DISCHARGE OF MORTGAGE TRANSFER MORTGAGE	EDITION 1
10/3/1995	066144	DISCHARGE OF MORTGAGE	EDITION 2
13/3/1995 13/3/1995 13/3/1995	066145 067892 067894	TRANSFER LEASE TRANSFER	EDITION 3
14/3/1995	067896	MORTGAGE	EDITION 4
12/2/1996	0900501	LEASE	EDITION 5
25/7/1997	DP869710	DEPOSITED PLAN	FOLIO CANCELLED
15/9/1999	6197230	DEPARTMENTAL DEALING	

\*\*\* END OF SEARCH \*\*\*

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FOLIO: 134/823720

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First Title(s): OLD SYSTEM VOL 1875 FOL 114 Prior Title(s): VOL 12897 FOL 223 PA90000

Recorded	Number	Type of Instrument	C.T. Issue
21/4/1994	DP823720	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
15/5/1995	0204882	APPLICATION	FOLIO CREATED EDITION 1
29/1/1997	2793838	TRANSFER	EDITION 2
25/7/1997	DP869710	DEPOSITED PLAN	FOLIO CANCELLED
15/9/1999	6197140	DEPARTMENTAL DEALING	

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FOLIO: 136/	869710		
Firs Prio	t Title(s): r Title(s):	OLD SYSTEMVOL 1461 FOLVOL 1479 FOL 244VOL 1481 FOLVOL 1540 FOL 138VOL 1794 FOLVOL 1875 FOL 114VOL 1937 FOLVOL 15202 FOL 1541-2/70237221-22/5444181-2/70237210-11/20/758590131/823720	30 29 13 46
Recorded	Number	Type of Instrument	C.T. Issue
28/7/1997	DP869710	DEPOSITED PLAN	FOLIO CREATED EDITION 1
29/7/1997 29/7/1997 29/7/1997	3199856 3259623 3259624	LEASE LEASE LEASE	EDITION 2
28/10/1997	3531031	TRANSFER	EDITION 3
17/12/1997 17/12/1997 17/12/1997 17/12/1997 17/12/1997 17/12/1997	3650420 3650421 3650422 3650423 3650423 3650424	LEASE LEASE LEASE LEASE SUB-LEASE	EDITION 4
19/12/1997		AMENDMENT: CT DELIVEREE	
13/3/1998	3852862	DEPARTMENTAL DEALING	
2/6/1998	5022289	MORTGAGE	EDITION 5
22/7/1998	5146498	MORTGAGE OF LEASE	EDITION 6
11/8/1998	5189074	MORTGAGE OF LEASE	
6/1/1999 6/1/1999 6/1/1999 6/1/1999	5510062 5510063 5510064 5510065	LEASE LEASE LEASE LEASE	EDITION 7
23/12/1999 23/12/1999 23/12/1999	6452051 6452052 6452053	DISCHARGE OF MORTGAGE DISCHARGE OF MORTGAGE MORTGAGE	EDITION 8

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Recorded	Number	Type of Instrument	C.T. Issue
25/2/2000	6598299	CAVEAT	
14/7/2000	6946665	CAVEAT	
26/9/2000	7108646	LEASE	EDITION 9
13/8/2001 13/8/2001 13/8/2001 13/8/2001	7844763 7844764 7844765 7844766	WITHDRAWAL OF CAVEAT WITHDRAWAL OF CAVEAT APPLICATION TRANSFER	EDITION 10
8/4/2002	8489113	TRANSFER OF LEASE	
3/6/2002	8653402	LEASE	EDITION 11
10/12/2002	9203431	DEPARTMENTAL DEALING TO UPLIFT CT	EDITION 12
5/7/2003 5/7/2003 5/7/2003 5/7/2003 5/7/2003 5/7/2003 5/7/2003 5/7/2003	9758118 9758119 9758120 9758122 9758123 9758124 9758125 9758126	DISCHARGE OF MORTGAGE LEASE VARIATION OF LEASE LEASE LEASE VARIATION OF LEASE TRANSFER	EDITION 13
21/7/2003	9807187	TRANSFER OF LEASE	
5/8/2003	9807187	DE-REGISTERED - TRANSFER OF	
5/8/2003 5/8/2003	9851111 9807187	DEPARTMENTAL DEALING SUB-LEASE	
31/3/2004	AA406729	MORTGAGE OF LEASE	
20/7/2004	AA764219	LEASE	EDITION 14
1/8/2006	AC495673	DISCHARGE OF MORTGAGE	
12/10/2006	AC661933	LEASE	EDITION 15
23/10/2006	AC689061	TRANSFER OF LEASE	
		END OF PAGE	2 - CONTINUED OVER
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Recorded	Number	Type of Instrument	C.T. Iss	sue
19/12/2006	AC820243	MORTGAGE OF LEASE		
18/4/2008	AD899195	DEPARTMENTAL DEALING		
23/4/2008 23/4/2008 23/4/2008	AD846572 AD846573 AD846574	TRANSFER OF LEASE LEASE LEASE	EDITION	16
7/5/2008	AD937700	LEASE	EDITION	17
16/6/2008	AE21300	LEASE	EDITION	18
14/10/2008 14/10/2008	AE264500 AE264501	LEASE LEASE	EDITION	19
17/4/2009	AE614337	TRANSFER	EDITION	20
22/6/2009	AE767573	LEASE	EDITION	21
8/2/2010 8/2/2010 8/2/2010	AF298258 AF298259 AF298260	VARIATION OF LEASE LEASE LEASE	EDITION	22
21/6/2011	AG313421	CAVEAT		
17/12/2012	AH442056	DEPARTMENTAL DEALING		
26/2/2013 26/2/2013 26/2/2013	AH574517 AH574518 AH574519	WITHDRAWAL OF CAVEAT LEASE LEASE	EDITION	23
27/9/2013	AI50106	DEPARTMENTAL DEALING		
8/9/2014	AI873480	LEASE	EDITION	24
12/2/2015 12/2/2015 12/2/2015	AJ112991 AJ112992 AJ211949	LEASE LEASE MORTGAGE OF LEASE	EDITION	25
12/10/2015	AJ892308	LEASE	EDITION	26
16/2/2017	AM164496	LEASE	EDITION	27

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Recorded	Number	Type of Instrument	C.T. Issue
26/4/2018	AN286580	LEASE	EDITION 28
14/11/2019 14/11/2019 14/11/2019	AP671336 AP671337 AP671346	LEASE LEASE TRANSFER OF LEASE	EDITION 29
22/1/2020	AP848484	TRANSFER OF LEASE	
19/3/2020	AP976775	MORTGAGE OF LEASE	
21/7/2020	AQ255530	LEASE	EDITION 30
10/12/2020	AQ624272	LEASE	EDITION 31
15/11/2021	AR615363	TRANSFER	EDITION 32

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SEARCH DATE	TIME	EDITION NO	DATE
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#### LAND

----LOT 136 IN DEPOSITED PLAN 869710 AT KURRI KURRI LOCAL GOVERNMENT AREA CESSNOCK PARISH OF HEDDON COUNTY OF NORTHUMBERLAND TITLE DIAGRAM DP869710

FIRST SCHEDULE

GEORGE VRACHLIOTIS IN 3/12 SHARE MARIA VRACHLIOTIS IN 3/12 SHARE VOTRAINT NO 124 PTY LIMITED IN 6/12 SHARE AS TENANTS IN COMMON

(T AR615363)

SECOND SCHEDULE (15 NOTIFICATIONS)

1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN WITHIN THE PART(S) SHOWN SO INDICATED IN THE TITLE DIAGRAM - SEE CROWN GRANT(S)

2 LAND EXCLUDES MINERALS - SEE CROWN GRANT(S) VOL. 1875 FOL. 114, VOL. 1937 FOL. 46 AND MEMORANDUM S700000A

3 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM

- 4 EXCEPTING THE LAND BELOW A DEPTH FROM THE SURFACE OF 15.24 METRES BY THE CROWN GRANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 5 L833204 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
- 6 DP869710 EASEMENT FOR ELECTRICITY SUBSTATION 2.5 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 7 DP869710 EASEMENT FOR RIGHT OF FOOTWAY 1.2 WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED

8 AC661933 LEASE TO GRAHAM SUPERMARKETS PTY LIMITED OF SHOP 5, KINGSWAY PLAZA, BARTON STREET, KURRI KURRI. EXPIRES: 19/9/2015.

AC689061 TRANSFER OF LEASE AC661933 LESSEE NOW RITCHIES STORES PTY LIMITED

AF298258 VARIATION OF LEASE AC661933 OPTION OF RENEWAL

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SECOND SCHEDULE (15 NOTIFICATIONS) (CONTINUED)

		NOW 10 YEARS
9	AF298259	LEASE TO RITCHIES STORES PROPRIETARY LIMITED OF
		SHOPS 10 & 11, KINGSWAY PLAZA, KURRI KURRI. EXPIRES:
		30/9/2015. OPTION OF RENEWAL: 10 YEARS.
10	AJ892308	LEASE TO AUSTRALIAN POSTAL CORPORATION OF SHOPS 18
		AND 19, KINGSWAY PLAZA, KURRI KURRI. EXPIRES:
		30/6/2018. OPTION OF RENEWAL: 5 YEARS AND A FURTHER
		OPTION OF 5 YEARS.
11	AM164496	LEASE TO LOASAN PTY LIMITED OF SHOP 3, KINGSWAY
		PLAZA, 174-178 LANG STREET, KURRI KURRI. EXPIRES:
		31/1/2018. OPTION OF RENEWAL: 2 YEARS.
12	AP671336	LEASE TO STACEY FORDHAM & BROOKE FORDHAM OF SHOP 6,
		KINGSWAY PLAZA, 174-178 LANG STREET, KURRI KURRI.
		EXPIRES: 31/8/2021. OPTION OF RENEWAL: 2 YEARS.
13	AP671337	LEASE TO KENNETH ALEXANDER WILSON, WILS PHARM PTY
		LTD & LL PHARMACY PTY LTD (SEE AP848484) OF SHOPS 12,
		13 & 14 AND OFFICE SPACE AT KINGSWAY PLAZA, 174-178
		LANG STREET, KURRI KURRI. EXPIRES: 30/6/2024. OPTION
		OF RENEWAL: 5 YEARS.
	AP976	775 MORTGAGE OF LEASE AP671337 TO AUSTRALIA AND NEW
		ZEALAND BANKING GROUP LIMITED
14	AQ255530	LEASE TO ANNA CHENERY SHOPS 7 & 8 IN THE PREMISES KN
		OWN AS KINGSWAY PLAZA, 174-178 LAND STREET, KURRI
		KURRI. EXPIRES: 6/2/2022. OPTION OF RENEWAL: 2 YEARS.
15	AO624272	LEASE TO SHERIDAN VAN MEETEREN OF SHOP 15B, KINGSWAY
	-	PLAZA, 174-178 LANG STREET, KURRI KURRI. EXPIRES:
		2/8/2023.

NOTATIONS

UNREGISTERED DEALINGS: NIL

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# APPENDIX D: Aerial Photographs

# Aerial Photographs


















## APPENDIX E: Site Photographs



Photograph 1 - Showing shopping centre building and car park



Photograph 2 - Showing Shop 4 inside shopping centre

Clie Proje	Client:	VOTRAINT No. 124 PTY LTD	Project No:	NEW22P-0213-AA
	Project:	PRELIMINARY & DETAILED CONTAMINATION ASSESSMENT	Date:	16/12/2022
	Location:	178 LANG ST, KURRI KURRI	No:	1 and 2
	Title:	SITE PHOTOGRAPHS	110.	r ana z



Photograph 3 - Showing inside shopping centre building



Photograph 4 - Showing Shop 5 (former IGA) inside shopping centre

	Client:	VOTRAINT No. 124 PTY LTD	Project No:	NEW22P-0213-AA
	Project:	PRELIMINARY & DETAILED CONTAMINATION ASSESSMENT	Date:	16/12/2022
	Location:	178 LANG ST, KURRI KURRI	No	2 and 4
	Title:	SITE PHOTOGRAPHS	INO.	5 unu 4



Photograph 5 - Showing Shop 17B inside shopping centre building



Photograph 6 - Showing plaque identifying opening date of shopping centre

	Client:	VOTRAINT No. 124 PTY LTD	Project No:	NEW22P-0213-AA
Qualtest 1	Project:	PRELIMINARY & DETAILED CONTAMINATION ASSESSMENT	Date:	16/12/2022
LABORATORY (NSW) PTY LTD	Location:	178 LANG ST, KURRI KURRI	No	5 and 4
	Title:	site photographs	140.	5 010 0



Photograph 7 - Showing car park looking north-west



#### Photograph 8 - Showing car park looking south-west

$\frown$	Client:	VOTRAINT No. 124 PTY LTD	Project No:	NEW22P-0213-AA
	Project:	PRELIMINARY & DETAILED CONTAMINATION ASSESSMENT	Date:	16/12/2022
	Location:	178 LANG ST, KURRI KURRI	No:	7  and  9
	Title:	site photographs	190.	7 unu o

## **APPENDIX F:** NSW EPA Records

#### Area No: 3210

The information below was correct at the time the notices were issued.

Site: United Petroleum Service Station Kurri Kurri Address: 279-281 Lang STREET, KURRI KURRI LGA: CESSNOCK CITY COUNCIL

Owner: Rana Petroleum Pty Ltd

Notices relating to this site (0 current and 4 former)

(Map) where available, maps show the part of the site affected by the notice

\* notice matched search criteria

Notice recipient	Notice type & number	Status	Date	
Name Withheld	Management Order 20121402	Former	Issued 17 Apr 2013	
Name Withheld	Approved Voluntary Management Proposal 20111716	Former	Issued 28 Jul 2011	
Not Applicable	Declaration of Investigation Area <u>15030</u>	Former	Issued 09 Nov 2005 Ended 15 Apr 2020	
Not Applicable	Notice to End Investigation Declaration 20194455	Issued	Issued 15 Apr 2020	



View this licence (PDF document 140 kb) Licence holder: CENTRAL WASTE PLANT PTY LTD Premises: CENTRAL WASTE PLANT PTY LTD 8 STYLES STREET, KURRI KURRI, NSW, 2327 LGA: CESSNOCK Catchment: Hunter Administrative fee: \$2,336.00 Licence status: Issued Activity type: Waste storage - other types of waste Recovery of general waste Licence review: Complete date 26 Feb 2020 Complete date 27 Feb 2015 Due date 26 Feb 2025 Pollution incident management plan: Last tested 27 Feb 2020 Current Environmental Risk Level: Level 2

View this licence (PDF document 121 kb)

Licence holder:	CLEANAWAY CO PTY LTD
Premises:	TOX FREE AUSTRALIA KURRI KURRI
	126 MITCHELL AVENUE, KURRI KURRI, NSW, 2327
	LGA: CESSNOCK Catchment: Hunter
Administrative fee:	\$4,672.00
Licence status:	Surrendered
Activity type:	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste
Licence review:	Complete date 18 Oct 2016
	Due date 18 Oct 2021
Pollution incident management	
plan:	No
Current Environmental Risk Level:	Level 1

View this licence (PDF document 196 kb)

Licence holder: HUNTER AND NEW ENGLAND AREA HEALTH SERVICE Premises: Kurri Kurri Hospital Lang Street, KURRI KURRI, NSW, 2327 LGA: CESSNOCK Catchment: Hunter Administrative fee: \$516.00 Licence status: No longer in force Activity type: Hazardous, Industrial or Group A Waste Generation or Storage Licence review: Complete date 10 Nov 2006 Due date 10 Nov 2011

Pollution incident management

plan: No

View this licence (PDF document 185 kb)

Licence holder:	HUNTER WATER CORPORATION
Premises:	KURRI KURRI WASTEWATER TREATMENT WORKS
	OFF MCLEOD ROAD, KURRI KURRI, NSW, 2327
	LGA: CESSNOCK Catchment: Hunter
Administrative fee:	\$9,490.00
Licence status:	Issued
Activity type:	Sewage treatment processing by small plants
Licence review:	Complete date 09 Sep 2020
	Complete date 10 Jun 2020
	Complete date 11 Jun 2015
	Complete date 01 Feb 2011
	Complete date 01 Feb 2006
	Complete date 31 May 2002
	Due date 09 Sep 2025
Pollution incident management	
plan:	Last tested 03 Dec 2021
Current Environmental Risk Level:	Level 1

View this licence (PDF document 209 kb)

Licence holder: NATIONWIDE OIL PTY LTD Premises: NATIONWIDE OIL PTY LTD 47 Wermol Street, KURRI KURRI, NSW, 2327 LGA: CESSNOCK Catchment: Hunter Administrative fee: \$4,448,00 Licence status: Surrendered Activity type: Hazardous, Industrial or Group A Waste Generation or Storage Licence review: Complete date 25 May 2004 Due date 25 May 2009 Pollution incident management plan: No

View this licence (PDF document 250 kb)

Licence holder:	WESTON ALUMINIUM PTY LIMITED		
Premises:	WESTON ALUMINIUM		
	129 MITCHELL AVENUE, KURRI KURRI, NSW, 2327		
	LGA: CESSNOCK Catchment: Hunter		
Administrative fee:	\$24,090.00		
Licence status:	Issued		
Activity type:	Thermal treatment of general waste		
	Thermal treatment of hazardous and other waste		
	Scrap metal processing		
	Recovery of hazardous and other waste		
	Aluminium production (scrap metal)		
	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste		
Licence review:	Complete date 03 Feb 2021		
	Complete date 08 Feb 2016		
	Complete date 08 Feb 2011		
	Complete date 21 Feb 2006		
	Complete date 01 Oct 2002		
	Due date 03 Feb 2026		
Pollution incident management			
plan:	Last tested 31 Aug 2021		
Current Environmental Risk Level:	Level 3		

## APPENDIX G: Section 10.7 Certificate



ISSUED UNDER SECTION 10.7 (2) & (5) ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979 and associated ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021

Tom Hall 2 Murray Dwyer Circuit, Mayfield NSW 2304 Applicants Reference Qualtest - Kurri Kurri

CERTIFICATE DETAILS	
Certificate Number:	3206
Date of Certificate:	08/11/2022

PROPERTY DETAILS	
Address:	Kingsway Plaza (North) 178 Lang Street KURRI KURRI NSW 2327
Title:	LOT: 136 DP: 869710
Parcel No.:	27205

#### **BACKGROUND INFORMATION**

This certificate provides information on how the relevant parcel of land may be developed, including the planning restrictions that apply to development of the land, as at the date the certificate is issued. The certificate contains information Council is aware of through its records and environmental plans, along with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the *Environmental Planning and Assessment Act, 1979*.

t 02 4993 4100 f: 02 4993 2500 p: PO Box 152 Cessnock NSW 2325 e: council@cessnock.nsw.gov.au w: www.cessnock.nsw.gov.au ABN 60 919 148 928



ISSUED UNDER SECTION 10.7 (2) & (5) ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979 and associated ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021

#### 1. Name of relevant planning instruments and development control plans

(1) The following environmental planning instruments and development control plans apply to the carrying out of development on the land:

#### **State Environmental Planning Policies**

State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 State Environmental Planning Policy (Resilience and Hazards) 2021 State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 State Environmental Planning Policy (Transport and Infrastructure) 2021 State Environmental Planning Policy (Resources and Energy) 2021 State Environmental Planning Policy (Primary Production) 2021 State Environmental Planning Policy (Planning Systems) 2021 State Environmental Planning Policy (Biodiversity and Conservation) 2021 State Environmental Planning Policy (Housing) 2021 State Environmental Planning Policy (Housing) 2021

#### Local Environmental Plans

Cessnock Local Environmental Plan 2011

#### **Development Control Plans**

Cessnock Development Control Plan 2010

- **Note:** Detailed information on the local environmental plans and State Environmental Planning Policies that are listed in this certificate are available at NSW Legislation in force website.
- (2) The following proposed environmental planning instruments and draft development control plans are or have been the subject of community consultation or on public exhibition under the Environmental Planning and Assessment Act 1979, apply to the carrying out of development on the land and:

Council has been notified that the following Draft State Environmental Planning Policy was placed on public exhibition and may affect land use planning and development in Cessnock:

#### **Draft State Environmental Planning Policies**

DRAFT SEPP - New Sustainable Buildings Incorporating BASIX (in force from 1 October 2023) DRAFT SEPP - BASIX Higher Standards – Exhibition 17 November 2021 to 28 February 2022



ISSUED UNDER SECTION 10.7 (2) & (5) **ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979** and associated **ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021** 

DRAFT SEPP - Infrastructure and Education (Amendments) - Exhibition 15 December 2021 to 11 February 2022

**DRAFT SEPP - Infrastructure (amendments)** 

Amendment – Changes to Landscape Rehydration Infrastructure Planning Rules – Exhibition 20 December 2021 to 28 February 2022

Amendment – Electricity generating works or solar energy systems – Exhibition 16 August 2021 to 13 September 2021

Amendment - Telecommunications and other communication facilities - Exhibition 16 August 2021 to 13 September 2021

DRAFT SEPP - Infrastructure Planning Rules - Exhibition 20 December 2021 to 28 February 2022

DRAFT SEPP - Planning Amendments for Agriculture (Agri - tourism) - Exhibition 9 March 2021 to 19 April 2021

DRAFT SEPP – Fun – Exhibition 29 October 2021 to 30 November 2021

**Draft Planning Proposal for Local Environmental Plan** There are no Draft Local Environmental Plan/s affecting this land.

**Draft Development Control Plan** No draft development control plans apply to the land.

#### 2. Zoning and land use under relevant planning instruments

The following matters for each environmental planning instrument or draft environmental planning instrument that includes the land in a zone, however described-

- (a) The identity of the zone, whether by reference to
  - a name, such as "residential zone" or "heritage area", or (i)
  - a number, such as "Zone No 2(a)", (ii)

B2 Local Centre under the Cessnock Local Environmental Plan 2011.

- The purpose for which development in the zone -(b)
  - may be carried out without development consent, and (i)
  - may not be carried out except with development consent, and (ii) is prohibited,
  - (iii)

B2 Local Centre

2 Permitted without consent

Home occupations

3 Permitted with consent



Boarding houses; Centre-based child care facilities; Commercial premises; Community facilities; Educational establishments; Entertainment facilities; Function centres; Information and education facilities; Medical centres; Oyster aquaculture; Passenger transport facilities; Recreation facilities (indoor); Registered clubs; Respite day care centres; Restricted premises; Roads; Seniors housing; Service stations; Sewage reticulation systems; Shop top housing; Tank-based aquaculture; Tourist and visitor accommodation; Any other development not specified in item

4) ProhibitedAgriculture; Airstrips; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Pond-based aquaculture; Recreation facilities (major); Recreation facilities (outdoor); Residential accommodation; Resource recovery facilities; Sewage treatment plants; Sex services premises; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Warehouse or distribution centres; Waste disposal facilities; Water recreation structures; Water recycling facilities; Wharf or boating facilities; Wholesale supplies

- (c) Whether additional permitted uses apply to the land, No
- (d) Whether development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions,

No

#### (e) Whether the land is in an area of outstanding biodiversity value under the <u>Biodiversity</u> <u>Conservation Act 2016</u>.

The land is not land that includes or comprises biodiversity conservation under the Biodiversity Conservation Act 2016.

#### (f) Whether the land is a conservation area, however described,

The land is not a conservation area under the Cessnock Local Environmental Plan 2011.

#### (g) Whether an item of environmental heritage, however described, is located on the land:

An item of environmental heritage identified in Cessnock Local Environmental Plan 2011 is not situated on the land.

#### 3. Contributions plans

1. The name of each contributions plan under the Act, Division 7.1 applying to the land, including draft contributions plan.



Cessnock Section 7.12 Levy Contributions Plan 2017.

Cessnock City Wide Local Infrastructure Contributions Plan 2020.

2. If the land is in a special contributions area under the Act, Division 7.1, the name of the area.

No

#### 4. Complying Development

(1) Complying development may be carried out on the land under each of the following codes for complying development, to the extent stated, because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

The following Complying Development Codes may allow complying development to be carried out on land in the following land uses zones

- Complying Development under (Part 4) Housing Alterations Code may be carried out on land within any zone.
- Complying Development under (Part 4A) General Development Code may be carried out on land within any zone.
- Complying Development under (Part 5) Industrial and Business Alterations Code may be carried out on land within any zone.
- Complying Development under the (Part 6) **Subdivisions Code** may be carried out on land within any zone.
- Complying Development under the (Part 7) **Demolition Code** may be carried out on land within any zone.
- Complying Development under the (Part 8) Fire Safety Code may be carried out on land within any zone.
- (2) Complying development may not be carried out on the land under each of the following codes for complying development, to the extent and for the reasons stated under clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

Housing Code	Complying Development may not be carried out under the Housing Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.
Rural housing code	Complying Development MAY NOT be carried out under the Rural Housing Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.
Low Rise Housing Diversity Code	Complying Development may not be carried out
	100/2022/3206/1



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and associated

**ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021** 

	under the Low Rise Housing Diversity Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.
Greenfield Housing Code	Complying Development may not be carried out under the Greenfield Housing Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.
Housing Alterations Code	Complying Development may be carried out on the land under the Housing Alterations Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
<b>General Development Code</b> (transitional development under former General Housing Code and related provisions)	Complying Development may be carried out on the land under the General Development Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
Industrial and Business Alterations Code	Complying Development may be carried out on the land under the Industrial and Business Alterations Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
Industrial and Business Buildings Code	Complying Development may be carried out on the land under the Industrial and Business Buildings Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
Container Recycling Facilities Code	Complying Development may be carried out on the land under the Container Recycling Facilities Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
Subdivisions Code	Complying Development may be carried out on the land under the Subdivision Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
Demolition Code	Complying Development may be carried out on the



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	land under the Demolition Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.						
Fire Safety Code	Complying Development may be carried out on the land under the Fire Safety Code, subject to the development complying with the relevant standards contained within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.						

#### 5. Exempt Development

(1) If the land is land on which exempt development may be carried out under each of the exempt development codes under State Environmental Policy (Exempt and Complying Development Codes) 2008, because of that Policy, clause 1.16(1) (b1) -(d) or I .16A.

The exempt development may be carried out on the land under the following exempt development codes:

- Division 1: General Code
- Division 2: Advertising and Signage Code
- Division 3: Temporary Uses and Structures Code
- Division 4: Special Provisions \_ COVID 19
- (2) If exempt development may not be carried out on the land because of I of those clauses, the reasons why it may not be carried out under the clause.

Biodiversity Conservation Act 2016	Exempt Development must not be carried out on							
and Fisheries Management Act 1994	land that is a declared area of outstanding							
	biodiversity value under the Biodiversity							
	Conservation Act 2016 or declared critical habitat							
	under Part 7A of the Fisheries Management Act							
	1994							
Wilderness Act 1977	Exempt Development must not be carried out on							
	land that is, or is part of, a wilderness area (within							
	the meaning of Wilderness Act 1987)							
Heritage Act 1977	Exempt Development must not be carried out on							
U U	land that is, or on which there is, an item that is							
	listed on the State Heritage Register under the							
	Heritage Act 1977, or that is subject to an interim							
	heritage order under that Act							
Schedule 4 Land excluded from	Exempt Development must not be carried out on							
the General Exempt Development	land that is described or otherwise identified on a							
Code	map specified in Schedule 4							
Land within 18 kilometres of Siding	Exempt Development must not be carried out on							
Spring Observatory	L and within 18 kilometres of Siding Spring							



ISSUED UNDER SECTION 10.7 (2) & (5)

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and associated

**ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021** 

Observatory

**Note:** Despite any references above advising that Exempt Development may be undertaken on the land, certain Exempt Development may be precluded from occurring on the land due to requirements contained in the remainder of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. It is necessary to review the State Environmental Planning Policy in detail to ensure that specific types of exempt development may be undertaken on the land.

- (3) If the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land, a statement that-
  - (a) a restriction applies to the land, but it may not apply to all of the land, and
  - (b) the council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land.

**Note:** Despite any references above advising that Exempt Development may be undertaken on the land, certain Exempt Development may be precluded from occurring on the land due to requirements contained in the remainder of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. It is necessary to review the State Environmental Planning Policy in detail to ensure that specific types of exempt development may be undertaken on the land.

### (4) If the exempt development codes are varied, under that Policy, clause I .12, in relation to the land.

There are no variations to the exempt development codes within the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 that apply in the Cessnock local government area.

#### 6. Affected building notices and building product rectification orders

- (1) Whether the Council is aware that -
  - (a) An affected building notice is in force in relation to the land, or
  - (b) A building product rectification order is in force in relation to the land that has not been fully complied with, or
  - (c) A notice of intention to make a building product rectification order given in relation to the land is outstanding.

#### (2) In this section -

Affected building notice has the same meaning as in the Building Products (Safety) Act 2017, Part 4.

**Building Product Rectification Order** has the same meaning as in the <u>Building Products</u> (Safety) Act 2017.

There is not an affected building notice, as defined by the Building Product(Safety)Act 2017, in force in respect to the land.

There is not an outstanding building product rectification order, as defined by the Building Products (Safety) Act 2017, in force in respect to the land.

A notice of intent to make a building product rectification order, as defined by the Building Products(Safety) Act 2017, has not been served in respect to the land.



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#### 7. Land reserved for acquisition

Whether an environmental planning instrument or proposed environmental planning instrument referred to in section 1 makes provision in relation to the acquisition of the land by an authority of the State, as referred to in the Act, section 3.15.

No

#### 8. Road widening and road alignment

Whether or not the land is affected by any road widening or road realignment under:

- (a) Roads Act 1993 Part 3, Division 2, or
- (b) any environmental planning instrument, or
- (c) a resolution of the council.

The land is not affected by a road widening or road realignment proposal under:

- (a) Division 2 of Part 3 of the Roads Act 1993, or
- (b) any environmental planning instrument, or
- (c) any resolution of the council.

#### 9. Flood related development controls

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls.

No

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls.

No

#### Note: In this section -

Flood Planning Area has the same meaning as in the Floodplain Development Manual. Floodplain Development Manual means the Floodplain Development Manual (ISBN 0 7347 5476 0) published by the NSW Government in April 2005. Probable Maximum Flood has the same meaning as in the Floodplain Development Manual. Details relating to flood risk and flood planning levels are provided on a flood certificate and flood data application form. See Cessnock City Council's website Flood Certificate and Flood Data Application Form

#### 10. Council and other public authority hazard risk restrictions

(1) Whether any of the land is affected by an adopted policy that restricts the development of the land because of:



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Landslip No

Bushfire No

Tidal Inundation No

Subsidence No

Acid Sulphate Soils No

Contamination No

Aircraft Noise No

Salinity No

Coastal Hazards No

Sea Level Rise No

Any Other Risk (other than flooding) No

#### (2) Adopted policy means a policy adopted -

- (a) by the council, or
- (b) by another public authority, if the public authority has notified the council that the policy will be included in a planning certificate issued by the council.

#### 11. Bush fire prone land

- If any of the land is bushfire prone land, designated by the Commissioner of the NSW Rural Fire Service under the Act, section 10.3, a statement that all or some of the land is bushfire prone land.
  If none of the land is bushfire prone land, a statement to that effect.

None of the land is bushfire prone land as defined in the Environmental Planning & Assessment Act 1979.

#### 12. Loose-fill asbestos insulation



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If the land includes residential premises within the meaning of the *Home Building Act 1989* (*Part 8, Division IA*), that are listed on the Register kept under that Division, a statement to that effect.

No

#### 13. Mine subsidence

Whether the land is declared to be a mine subsidence district, within the meaning of the Coal Mine Subsidence Compensation Act 2017.

No

#### 14. Paper subdivision information

- (1) The name of a development plan adopted by a relevant authority that:
  - (a) applies to the land, or
  - (b) is proposed to be subject to a ballot.

There is no development plan adopted by a relevant authority that applies to the land of that is proposed to be subject to a consent ballot.

(2) The date of a subdivision order that applies to the land.

There is no subdivision order that applies to the land

(3) Words and expressions used in this section have the same meaning as in this Regulation, Part 10 and the Act, Schedule 7.

#### 15. Property vegetation plans

The land is not land to which a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applies, only insofar as the Council has been notified of the existence of the plan by the person or body that approved the plan under the Act.

#### 16. Biodiversity stewardship sites

The land is not a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the Biodiversity Conservation Act 2016, but only insofar as the Council has been notified of the existence of the agreement by the Biodiversity Conservation Trust.

**Note.** Biodiversity stewardship agreements include biobanking agreements under Part 7A of the *Threatened Species Conservation Act 1995* that are taken to be biodiversity stewardship agreements under Part 5 of the *Biodiversity Conservation Act 2016*.

#### 17. Biodiversity certified land

The land is not biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016.



**Note.** Biodiversity certified land includes land certified under the *Threatened Species Conservation Act 1995.* Part 7AA that is taken to be certified under the *Biodiversity Conservation Act 2016,* Part 8.

#### 18. Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No

## 19. Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

If the *Coastal Management Act 2016* applies to the council, whether the owner, or a previous owner, of the land has given written consent to the land being subject to annual charges under the Local Government Act 1993, section 496B for coastal protection services that relate to existing coastal protection work.

No, the land is not subject to annual charges under the Local Government Act 1993, section 496B, for coastal protection services.

#### 20. Western Sydney Aerotropolis

The State Environmental Planning Policy (Precincts—Western Parkland City) 2021 does not apply to land within the Cessnock local government area.

#### 21. Development Consent Conditions for Seniors Housing

#### Development consent conditions for seniors housing

If <u>State Environmental Planning Policy (Housing) 2021</u>, Chapter 3, Part 5 applies to the land, any conditions of a development consent granted after 11 October 2007 in relation to the land that are of the kind set out in that Policy, section 88(2).

No

## 22. Site compatibility certificates and development consent conditions for affordable rental housing

- 1. Whether there is a current site compatibility certificate under State Environmental Planning Policy (Housing) 2021, or a former site compatibility certificate, of which the council is aware, in relation to proposed development on the land and, if there is a certificate
  - a) the period for which the certificate is current, and
  - b) that a copy may be obtained from the Department.



There is not a valid current or former site compatibility verification certificate for affordable rental housing on the land.

# 2. If State Environmental Planning Policy (Housing) 2021, Chapter 2, Part 2, Division 1 or 5 applies to the land, a statement setting out terms of a kind referred to in the Policy, clause 21(1) or 40(1).

No, Council is not aware of a condition of a development consent in relation to the land that are of a kind referred to in State Environmental Planning Policy (Affordable Rental Housing) 2009, Clause 17(1) or 38(1).

**Note:** Any conditions of a development consent in relation to land that are of a kind referred to in <u>State</u> <u>Environmental Planning Policy (Affordable Rental Housing) 2009</u>, clause 17(1) or 38(1). In this section, former site compatibility certificate means a site compatibility certificate issued under <u>State</u> <u>Environmental Planning Policy (Affordable Rental Housing) 2009</u>.

### 3. Any conditions of a development consent in relation to land that are of a kind referred to in State Environmental Planning Policy (Affordable Housing) 2009, clause 17(1) or 38(1).

No

4. In this section-

*Former site compatibility certificate* means a site compatibility certificate issued under State Environmental Planning Policy (Affordable Rental Housing) 2009.



#### **Additional Matters**

#### Matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land or part of the land is not significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (b) The land is not subject to a management order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (c) The land is not the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (d) The land is not the subject of an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- (e) The land is not the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 (if a copy of such a statement has been provided at any time) to the local authority issuing the certificate.

For further information, please contact Council's Assistant Strategic Planner on 02 4993 4100.

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Peter Mickleson Director Planning and Environment



ISSUED UNDER SECTION 10.7 (2) & (5) ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979 and associated ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION 2021

Tom Hall 2 Murray Dwyer Circuit, Mayfield NSW 2304 Applicants Reference Qualtest - Kurri Kurri

CERTIFICATE DETAILS	
Certificate Number:	3206
Date of Certificate:	08/11/2022

PROPERTY DETAILS	
Address:	Kingsway Plaza (North) 178 Lang Street KURRI KURRI NSW 2327
Title:	LOT: 136 DP: 869710
Parcel No.:	27205

#### BACKGROUND INFORMATION

This certificate provides information on how the relevant parcel of land may be developed, including the planning restrictions that apply to development of the land, as at the date the certificate is issued. The certificate contains information Council is aware of through its records and environmental plans, along with data supplied by the State Government. The details contained in this certificate are limited to that required by Section 10.7 of the *Environmental Planning and Assessment Act, 1979*.

t 02 4993 4100 f. 02 4993 2500 p: PO Box 152 Cessnock NSW 2325 e: council@cessnock.nsw.gov.au w: www.cessnock.nsw.gov.au ABN 60 919 148 928



## Additional information pursuant to Section 10.7(5) of the *Environmental Planning & Assessment Act 1979*

(5) A council may, in a planning certificate, include advice on such other relevant matters affecting the land of which it may be aware.

Council's records do not indicate that the land the subject of this Certificate is subject to Noise Exposure.

For further information, please contact Council's Strategic Land Use Planning unit, of the Planning and Environment directorate on 02 4993 4100.

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Peter Mickleson Director Planning and Environment

## APPENDIX H: Borehole Logs



#### **ENGINEERING LOG - BOREHOLE**

LOCATION: 178 LANG STREET, KURRI KURRI

BOREHOLE NO:

CLIENT: VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

JOB NO:

1 OF 1 NEW22P-0213

LOGGED BY:

DATE:

ΤН 1/12/22

**BH01** 

DRI BOI	LL T REH(	YPE: OLE DIAN	DI/ IETEF	amond <sup>.</sup> <b>R:</b>	TIP CC 80/200	) RING ) mm	BIT / HAND AUGER SURF	FACE RL: JM:					
	Drill	ing and San	npling		Material description and profile information						Field 7	Test	
 MEIHOU	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticity characteristics,colour,minor component	y/particle is	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
2	red	0.40					CONCRETE SLAB - approximately 100mm	thick.				(	CONCRETE SLAB
	Encounter	0.10m E 0.20m		-		 SP	FILL: SAND - fine grained sand, pale browr	 1.	м				FILL
Η	Not	E 0.35m		-		 CL	CLAY - low to medium plasticity, orange-bro some grey-brown, trace fine grained sand, 1 grained angular to sub-angular gravel.	own, with trace fine	M > W	St			RESIDUAL SOIL
		<u>0.35m</u>		0.5 - - - - - - - - - - - - - - - - - - -			Advantion of the second	ck	~W	St			
				-									
LEVERUJ: Notes, Sa   Water U₅₀   ✓ Water Level (Date and time shown) CBR E   ✓ Water Inflow ASS   ✓ Water Outflow B   Strata Changes B   — Gradational or transitional strata PID   Definition or distint DCP(x-v)		mples a 50mm Bulk s Enviro (Glass Acid S (Plast Bulk S bulk S Photo	nd Test Diame ample f onmenta s jar, se Sulfate S ic bag, a Sample ionisationis ationis ationi	Image: Second State     Iter tube sample     or CBR testing     al sample     aled and chilled on site)     Soil Sample     air expelled, chilled)     on detector reading (ppm)     etrometer test (test denth interval shown)	Consister   VS V   S S   F F   St S   VSt V   H H   Fb F   Density	ncy /ery Soft irm :tiff /ery Stiff lard riable V L M	Ve Lc	UCS <25 25 - 50 - 100 200 >400 ery Loos pose edjum F	50 100 - 200 - 400 0 se	Moisture Condition       D     Dry       M     Moist       W     Wet       W			
 strata change			HP	Hand	Penetro	meter test (UCS kPa)		D VD	De	ense ery Den	se	Density Index 65 - 85% Density Index 85 - 100%	



#### **ENGINEERING LOG - BOREHOLE**

LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

CLIENT:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

BOREHOLE NO:

**BH02** 1 OF 1

NEW22P-0213

JOB NO: LOGGED BY:

DATE:

ΤН 1/12/22

	DR BO	LL T REH	YPE: OLE DIAN	DIA IETEF	amond <sup>-</sup> <b>R:</b>	IOND TIP CORING BIT / HAND AUGER     SURF       200/80 mm     DATU					FACE RL: JM:				
ľ	Drilling and Sampling							Material description and profile information				Field	d Test		
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticity characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations	
ľ	CD		0.40					CONCRETE SLAB - approximately 100mm	n thick.					CONCRETE SLAB	
-	<u>u</u>	untered	0.10m A.30m		-		 SP	0.10m FILL: SAND - fine grained sand, brown.		M			-	 FILL	
	ΗA	Not Enco	E 0.30m		0.5		CL	CLAY - low to medium plasticity, orange to red-brown, with some grey-brown, fines of f grained sand, trace fine grained angular to sub-angular gravel.	fine	M > w <sub>P</sub>	St	ΗP	150	RESIDUAL SOIL	
	LEG Watt	END: Pr Wata Wata En Cha	er Level e and time sl er Inflow er Outflow anges	nown)	0.5 0.5 - - - - - - - - - - - - -	mples a 50mm Bulk s Envirce (Glass Acid S (Plast	nd Tes Diame ample f Inmenta i jar, se ulfate S ulfate S ample	Be ter tube sample or CBR testing al sample aled and chilled on site) soil Sample air expelled, chilled)	Consister VS V S S F F St S VSt V H H Fb F	ncy /ery Soft Soft Firm Stiff /ery Stiff /ery Stiff		<u>U0</u> <2 50 100 200 24	CS (kPa 55 - 50 - 100 0 - 200 00 - 400 00	Moisture Condition       D     Dry       M     Moist       W     Wet       Wp     Plastic Limit       WL     Liquid Limit	
	Gradational or transitional strata Definitive or distict strata change Gradational or PID PCP(x-y) HP			PID PID DCP(x-y) HP	Photo Dynar Hand	ionisatio nic pen Penetro	on detector reading (ppm) etrometer test (test depth interval shown) meter test (UCS kPa) –		V L MC D VD	Ve Lo M De Ve	ery Lo bose edium ense <u>ery</u> De	iose 1 Dense ense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%		


LOCATION: 178 LANG STREET, KURRI KURRI

CLIENT: VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

BOREHOLE NO:

**BH03** 1 OF 1

NEW22P-0213

JOB NO:

LOGGED BY: DATE: TH 1/12/22

	dri Boi	LL T REH(	YPE: OLE DIAM	DIA ETER	MOND 1	FIP CC 200/80	RING ) mm	BIT / HAND AUGER SURF	ACE RL: JM:					
ŀ		Drilli	ing and Sam	npling				Material description and profile information				Field	d Test	
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticity characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
	PCD		0.45		-	0 0 0 0		CONCRETE SLAB - approximately 150mm	n thick.					CONCRETE SLAB
-			0.15m 0.20m E 0.30m		-		SP	0.15m FILL: Gravelly SAND - fine to medium grain brown to brown, fine grained angular to sub gravel, trace fines of low plasticity.	ned, pale p-angular	м			-	FILL
		ntered	0.35m E θ:45∰ E 0.55m		0.5		SP SP	0.35m ASPHALT FILL: Gravelly SAND - fine to coarse graine green-brown with some grey, fine grained a sub-angular gravel, trace fines of low plastic FILL: Gravelly SAND - fine to coarse graine brown to black, fine grained sub-rounded to sub-angular gravel, trace fines of low plastic	 angular to <u>city</u> ed, dark o city.	M			-	ASPHALT
	HA	Not Encoul	0.70m E 0.80m,		-			0.70m CLAY - medium plasticity, orange-brown to red-brown, trace fine grained sand.		٩			-	RESIDUAL SOIL — — — —
el Lavanu III Onu 1001					1. <u>0</u> - -		Сі	<u>1.25m</u>		M > W	VSt		-	
02.00.04 Day					-		CL	2.40 paperties: breaks down into CLAY - low pla pale orange-brown, with fine grained sand.	asticity,	M N N	H / Fb			ROCK
OURED DURERDE - IEOI FII NEWZZF-UZIO - DURERDE EUGOJGFU SSUIAMIIGEIROZ ZI/IZ/ZZZ 14.0U TU I	LEG Wate	END: er Wate Wate	er Level e and time sh er Inflow	ıown)	1.5	mples a 50mm Bulk s Envirc (Glass Acid S	nd Tes Diame ample i jar, see uifate 5	Practical Refusal on weathered rock	Consister VS V S S F Fi St S VSt V	ncy ery Soft oft ery Stiff		U0 <22 500 100 200	CS (kPa 55 - 100 - 100 0 - 200 0 - 400	Moisture Condition           D         Dry           M         Moist           W         Wet           Wp,         Plastic Limit           W,         Liquid Limit
אן רום ויוימרה הא ואריא.	<b>4</b> 	Wate t <u>a Cha</u> Gr tra tra str	er Outflow anges radational or ansitional stra efinitive or dis rata change	ta tict	B Field Test PID DCP(x-y) HP	(Plasti Bulk S Photoi Dynan Hand	c bag, ample onisationisation nic pen Penetro	air expelled, chilled) on detector reading (ppm) etrometer test (test depth interval shown) ometer test (UCS kPa)	H H Fb Fi Density	ard riable L ME D VD	Ve Lo D D Ve	>4 ery Lo pose edium ense ery De	n Dense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%



LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

CLIENT:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

BOREHOLE NO:

**BH04** 1 OF 1

NEW22P-0213

Job No: Logged by:

DATE:

TH / BE 1/12/22

	DR BO	ILL T REH	YPE: OLE DIAN	DIA IETEF	MOND <sup>-</sup> <b>R</b> :	TIP CC 80/200	RING ) mm	BIT / HAND AUGER SURF	FACE RL: JM:					
		Drill	ing and San	npling				Material description and profile information				Field	d Test	
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
	PCD				_			CONCRETE SLAB - approximately 130mm	1 thick.					CONCRETE SLAB
	НА	Not Encountered	0.15m E 0.25m		- - 0.5_		SP	0.13m	prown, p-rounded	м				FILL
			E 0.65m		-		СН	CLAY - medium to high plasticity, orange-b	 rown.	M > Wp	St			RESIDUAL SOIL
ורט ככר המומדוופסס בוויובובטבר ו4.טט וטטב.טט.ט4 המוטפו במסמות ווו סונע וטטו					- 1. <u>0</u> - - - 1. <u>5</u> - - - - - - -	· · · · · · · · · · · · · · · · · · ·		Silty SANDSTONE - fine grained, pale oran pale grey, estimated medium strength. Hole Terminated at 0.81 m Practical Refusal on weathered rock	nge and					SLIGHTLY WEATHERED
רפ רסט NUN-CURED בטהבהטרב - ובאו דוו הבעצבד-עבוא - הטהבהטרב בטפאיפי -	LEG Watu	END: er Wat Wat Wat ta Cha	er Level e and time sl er Inflow er Outflow anges radational or	nown)	2.0	mples a 50mm Bulk s Envice (Glass Acid S (Plasti Bulk S S Bulk S	nd Tesi Diame ample f nmenta ijar, se c bag, a ample	S ter tube sample or CBR testing il sample aled and chilled on site) Soil Sample air expelled, chilled)	Consiste VS V S S F F St S VSt V H F Fb F Density	ncy /ery Soft Soft /ery Stiff łard /riable V	Ve	U0 <22 255 500 200 >4	CS (kPa 55 - 50 0 - 200 0 - 200 0 - 200 0 - 200 0 - 200 0 - 200 0 - 200	) Moisture Condition D Dry M Moist W Wet W <sub>p</sub> Plastic Limit W <sub>L</sub> Liquid Limit Density Index <15% Density Index <15%
сі пр і . I.G		<ul> <li>Water Inflow</li> <li>As</li> <li>✓ Water Outflow</li> <li><u>rata Changes</u></li> <li>Gradational or transitional strata</li> <li>Definitive or distict strata change</li> </ul>				Dynar Hand	nic pen Penetro	etrometer test (test depth interval shown) meter test (UCS kPa)			) Me De Ve	edium ense ery De	n Dense ense	Density Index 10 - 35 // Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%



LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

CLIENT:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

BOREHOLE NO:

**BH05** 1 OF 1

NEW22P-0213

Job No: Logged by:

DATE:

TH / BE 1/12/22

DR BO	ILL T	YPE: OLE DIAM	DIA IETEF	MOND ' R:	TIP CC 80/200	) RING ) mm	BIT / HAND AUGER SURF DATU	FACE RL: JM:					
	Drill	ing and San	npling				Material description and profile information				Field	Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor componen	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
PCD	untered	0.15m			0 0 0 0 0 0		CONCRETE SLAB - approximately 150mn	n thick.					CONCRETE SLAB
	t Encol	E 0.25m				SP	FILL: SAND - fine to medium grained, brow 0.25m fine grained sub-angular to angular gravel.	n, trace	м				FILL
Ч	No	0.30m E		-		СН	CLAY - medium to high plasticity, brown to red-brown, with some pale grey, trace fine sand.	grained	M > W <sub>P</sub>	St			RESIDUAL SOIL
		<u>u4um</u> ,		0.5	-		Sity SANDSTONE - fine grained, pale orar pale grey, estimated medium strength. Hole Terminated at 0.41 m Practical Refusal on weathered rock	 ige and					SLIGHTLY WEATHERED
				1. <u>0</u>	-								
				1. <u>5</u>	-								
				2. <u>0</u>	-								
LEC Wat	GEND: er Wat (Dat	er Level e and time sh	nown)	Notes, Sa U <sub>50</sub> CBR E	imples a 50mm Bulk s Enviro (Glass	nd Tes Diame ample f onmenta s jar, se	ts ter tube sample for CBR testing al sample aled and chilled on site)	Consiste VS S S St	ency Very Soft Soft Firm Stiff		UCS <25 25 - 50 - 100	50 100 - 200	) <u>Moisture Condition</u> D Dry M Moist W Wet W <sub>p</sub> Plastic Limit
<u>Stra</u>	I Wat <b>Ita Cha</b> Gi tra tra st	er Outflow anges radational or ansitional stra efinitive or dis rata change	ita stict	B Field Tes PID DCP(x-y) HP	Acid S (Plast Bulk S Photo Dynar Hand	ic bag, s ample ionisationisation nic pen Penetro	air expelled, chilled) air expelled, chilled) on detector reading (ppm) etrometer test (test depth interval shown) ometer test (UCS kPa)	Fb	very Stiff Hard Friable V L MC D VD	Ve Lo De Ve	>40 >40 ery Loo oose edium I ense ery Den	- 400 0 se Dense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%



LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

CLIENT:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

BOREHOLE NO:

**BH06** 1 OF 1

NEW22P-0213

Job No: Logged by:

DATE:

TH / BE 1/12/22

E	RILL BOREI	TYPE: IOLE DIAN	DIA IETEF	MOND <sup>-</sup> <b>R:</b>	FIP CC 80/200	RING ) mm	BIT / HAND AUGER SURF DATU	ACE RL: JM:					
	Dr	illing and San	npling				Material description and profile information				Field	d Test	
UCHTIN	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
	1			-			CONCRETE SLAB - approximately 160mm	n thick.					CONCRETE
		0.20m		-		 SP 	Ditem FILL: SAND - fine to medium grained, brow <u>0.25m</u> fine to medium grained angular to sub-angu \ gravel.	n, trace ular	м				
	t Encountered	( <u>0:30H</u> E (0.40m)		0.5		CL	CLAY - low to medium plasticity, grey-brow some black.	n, with			HP	80 - 100	FILL
Ę	N N			-		 CI	CLAY - medium plasticity, orange to red-bro 0.70m pale grey, trace fine grained sand.	 own, with	M ~ M	F - St	нР	150	RESIDUAL SOIL
				-		CL	CLAY - low to medium plasticity, pale grey a brown, with fine grained sand.	and pale			ΗP	80	
3				1.0		1	1.00m Hole Terminated at 1.00 m						
בטוווו אבואבר אב וא - טטובווטבב בטטטטו אי איטומווווא וופר בוו ובבעב איטר וטעביטטר ממואר ובא מוע וו טונ				- - - 1.5_ - - - - - - - - - - - - - - - - - - -									
	EGEND: Notes Vater U <sub>50</sub> ✓ Water Level (Date and time shown) ← Water Inflow ASS ✓ Water Outflow Gradational or Field				<u>mples a</u> 50mm Bulk s Enviro (Glass Acid S (Plasti Bulk S	nd Tes Diame ample f onmenta s jar, se Sulfate S ic bag, a Sample	<u>s</u> ter tube sample or CBR testing I sample aled and chilled on site) oil Sample air expelled, chilled)	Consister VS V S S F F St S VSt V H H Fb F	ncy /ery Soft oft irm /etiff /ery Stiff lard riable		<u>U(</u> <2 25 50 10 20 >4	25 (kPa 5 5 - 50 6 - 100 0 - 200 0 - 400 00	Moisture Condition           D         Dry           M         Moist           W         Wet           W <sub>p</sub> Plastic Limit           W <sub>L</sub> Liquid Limit
	( t l	Gradational or ransitional stra Definitive or dis strata change	ata stict	Field Test PID DCP(x-y) HP	t <u>s</u> Photo Dynar Hand	ionisatio nic pen Penetro	n detector reading (ppm) etrometer test (test depth interval shown) meter test (UCS kPa)	<u>Density</u>	V L D VD	Vi Lo D D Vi	ery Lo oose edium ense ery De	n Dense ense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 65 - 100%



## **ENGINEERING LOG - BOREHOLE** CLIENT:

LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

JOB NO:

LOGGED BY:

DATE:

TH / BE 5/12/22

**BH07** 

1 OF 1

NEW22P-0213

	oril Bori	L T EHC	YPE: Dle diam	2.7 ETER	TONNE :	EXCA 300 m	VATC m	OR WITH AUGER ATTACHMENT SURF	ACE RL: JM:					
	I	Drilli	ng and Sam	npling				Material description and profile information				Field	d Test	
COLLIN		WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
			0.10m E 0.20m 0.30m		-		GP	0.05m FILL: ASPHALT - approximately 45mm thic FILL: Sandy GRAVEL / Gravelly SAND - fir medium grained, rounded to sub-angular, p orange-brown, fine to coarse grained sand, fines of low plasticity. 0.33m	k ne to pale trace	М				ASPHALT
		ountered	E <u>0.40m</u> , 0.50m		- 0. <u>5</u>		CI	FILL: Sandy CLAY - medium plasticity, red- dark brown, with some grey, fine to coarse sand, with fine to coarse grained (mostly fin medium grained) angular to sub-angular gr trace fines of low plasticity, trace tile fragme	brown to grained ne to avel, ents/	~		HP	350 380	FILL RESIDUAL SOIL
		Not Enc	E <u>0.60m</u> ,		-			CLAY - medium to high plasticity, red-brown pale grey, trace pale orange, trace fine grai	n, with ned sand.	<sup>d</sup> ∧ ∼		ΗP	350	
5			<u>1.00m</u> E		- - 1. <u>0</u>		СН			≥	VSt	ΗP	450	
5 			<u>1.10m</u> ,		-		<u>↓</u>	1.10m 1.15m Silty SANDSTONE - fine grained, pale oran	 ige and 'b/	D				SLIGHTLY WEATHERED
					- - 1.5 - - - - - - - - - - - - - - - - - - -			Hole Terminated at 1.15 m Refusal						
		Wate (Date Wate Wate Cha Gr tra Str	er Level e and time sh er Inflow er Outflow <b>nges</b> adational or nsitional stra finitive or dis ata change	ta tict	I Notes, Sa U <sub>50</sub> CBR E ASS B Field Test PID DCP(x-y) HP	mples a 50mm Bulk s Enviro (Glass Acid S (Plast Bulk S Bulk S S Photo Dynar Hand	nd Tes n Diame ample to onmenta s jar, se Sulfate \$ ic bag, ic bag, Sample ionisation nic pen Penetro	ts ts ter tube sample for CBR testing al sample aled and chilled on site) Soil Sample air expelled, chilled) on detector reading (ppm) etrometer test (test depth interval shown) ometer test (UCS kPa)	Consiste VS V S S F F St S VSt V H F Fb F Density	I ncy /ery Soft Soft Stiff /ery Stiff łard /riable V L MC D	Ve Lc	LUC 25 50 10 20 24 ery Lo pose edium ense	<b>CS (kPa</b> 5 5 5 - 50 0 - 100 00 - 200 00 - 400 00 - 400 00 - 400 00 - 400	Moisture Condition         D       Dry         M       Moist         W       Wet         Wp,       Plastic Limit         WL       Liquid Limit         Density Index <15%



BOREHOLE NO:

CLIENT: VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT **LOCATION:** 178 LANG STREET, KURRI KURRI

JOB NO: LOGGED BY:

DATE:

TH / BE 5/12/22

**BH08** 

DF	VILL 1 OREH	iype: Iole dian	2.7 <b>IETER</b>	TONNE	EXCA 300 m	VATC m	OR WITH AUGER ATTACHMENT SURF DATU	ACE RL:					
	Dril	lling and San	npling				Material description and profile information				Field	d Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor component	//particle is	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
		0.10m E 0.20m		-		GP	0.03m FILL: ASPHALT - approximately 30mm thic FILL: Sandy GRAVEL / Gravelly SAND - fir medium grained, rounded to sub-angular, p orange-brown, fine to coarse grained sand, fines of low plasticity.	k/ le to pale trace	м				ASPHALT FILL - PAVEMENT GRAVEL
	ntered	0.50m E 0.60m		0. <u>5</u> -		CI	Sandy CLAY - medium plasticity, dark grey grey-brown, fine to coarse (mostly fine) gra with fine to medium grained rounded to sub \gravel. CLAY - medium to high plasticity, red-brown pale grey, trace pale orange, trace fine grai	to dark ined sand, -rounded /  n, with ned sand.			HP	320 350	COLLUVIUM/POSSIBLE FILL RESIDUAL SOIL
id in situ 1001 AD/T	Not Encour			- - 1. <u>0</u> -		СН			M > w <sub>P</sub>	VSt	HP HP	280 330	
022 14:00 10.02.00.04 Datget Lab an				- - 1. <u>5</u>			Pale grey and orange to red-brown				HP	220	
7/71/1.7 <<							Silty SANDSTONE - fine grained, pale oran 1.70m pale grey, estimated low to medium strengt	ge and h.	D				SLIGHTLY WEATHERED ROCK
	GENID				-	24 7-2	Refusal	Consister				CS (LP)	) Moisture Condition
	JEND: <u>ter</u> Yeat (Da − Wai ■ Wai ata Ch	ter Level ite and time sl ter Inflow ter Outflow	hown)	Notes, Sa U₅ CBR E ASS B	mples al 50mm Bulk si Enviro (Glass Acid S (Plasti Bulk S	Diame Diame ample f nmenta jar, se ulfate \$ c bag, a ample	ter tube sample for CBR testing al sample aled and chilled on site) Soil Sample air expelled, chilled)	Consister       VS     V       S     Si       F     Fi       St     Si       VSt     V       H     H       Fb     Fi	icy ery Soft oft rm tiff ery Stiff ard iable		22 25 50 10 20 >4	<u>cs (kPa</u> 25 5 - 50 0 - 100 00 - 200 00 - 400 400	moisture condition           D         Dry           M         Moist           W         Wet           Wp         Plastic Limit           WL         Liquid Limit
	G tra D sf	iradational or ansitional stra lefinitive or dis trata change	ata stict	Field Test PID DCP(x-y) HP	Photoi Dynan Hand I	onisationic pen Penetro	on detector reading (ppm) etrometer test (test depth interval shown) meter test (UCS kPa)	Density	V L MC D VD	Ve Lo M De	ery Lo bose edium ense ery De	oose n Dense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%

1 OF 1 NEW22P-0213 TH / BE



BOREHOLE NO:

CLIENT: VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT **LOCATION:** 178 LANG STREET, KURRI KURRI

JOB NO: LOGGED BY: DATE:

TH / BE 5/12/22

**BH09** 

1 OF 1

NEW22P-0213

	DRI BO	ILL T REH	YPE: OLE DIAM	2.7 ETER	TONNE	EXCA 300 m	VATC m	R WITH AUGER ATTACHMENT SUR DAT	FACE RL: UM:					
ŀ		Dril	ling and Sam	pling				Material description and profile information				Field	d Test	
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plastic characteristics,colour,minor compone	ity/particle nts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
orawingFile>> 21/12/2022 14:00 10:02:00:04 DatgeLab and in Situ Tool	AD/T	Not Encountered	0.10m E 0.20m 0.40m E 0.50m 0.90m				GP GP CH	O.04m FILL: ASPHALT - approximately 40mm th FILL: Sandy GRAVEL - fine to coarse gra brown to brown, fine to medium grained a sub-angular gravel, trace fines of low plas O.40m FILL: Gravelly SAND - fine to coarse grain to dark brown, fine to medium grained ang sub-angular gravel, trace fines of low plas O.90m Gravelly CLAY - medium to high plasticity, Grained rounded to sub-rounded gravel. Sitty SANDSTONE - fine grained, pale ora pale grey, estimated low to medium streng Hole Terminated at 0.91 m Refusal	ick ned, pale ngular to ticity. ed, brown gular to ticity.		H	HP	480	ASPHALT FILL - PAVEMENT GRAVEL
.1.GLB Log NON-CORED BOREHOLE - TEST PIT NEW22P-0213 - BOREHOLE LOGS.GPJ < <drave< th=""><th>LEG Watu Stra</th><th>i<b>END:</b> Wat (Da' Wai I Wai I Wai I <b>ta Ch</b></th><th>ter Level te and time sh ter Inflow ter Outflow anges radational or ansitional strai</th><th>iown)</th><th></th><th>mples a 50mm Bulk s Envirsc (Glasti Bulk S (Plasti Bulk S S Photoi Dvnar</th><th>nd Tesi Diame f Inmenta i jar, se i jar, se ulfate 5 c bag, a i ample ionisatid nic pen</th><th>IS ter tube sample or CBR testing al sample aled and chilled on site) Soil Sample air expelled, chilled) on detector reading (ppm) etrometer test (test deoth interval shown)</th><th>Consiste VS S St St VSt H Fb Density</th><th>ency Very Soft Soft Firm Stiff Very Stiff Hard Friable V L MD</th><th>Vi La</th><th>UU &lt;2 25 50 10 20 &gt;4</th><th>CS (kPa 55 5 - 50 0 - 100 00 - 200 00 - 400 000</th><th><ul> <li>Moisture Condition         <ul> <li>D Dry</li> <li>M Moist</li> <li>W Wet</li> <li>W<sub>p</sub> Plastic Limit</li> <li>W<sub>L</sub> Liquid Limit</li> </ul> </li> <li>Density Index &lt;15%         <ul> <li>Density Index 35 - 65%</li> </ul> </li> </ul></th></drave<>	LEG Watu Stra	i <b>END:</b> Wat (Da' Wai I Wai I Wai I <b>ta Ch</b>	ter Level te and time sh ter Inflow ter Outflow anges radational or ansitional strai	iown)		mples a 50mm Bulk s Envirsc (Glasti Bulk S (Plasti Bulk S S Photoi Dvnar	nd Tesi Diame f Inmenta i jar, se i jar, se ulfate 5 c bag, a i ample ionisatid nic pen	IS ter tube sample or CBR testing al sample aled and chilled on site) Soil Sample air expelled, chilled) on detector reading (ppm) etrometer test (test deoth interval shown)	Consiste VS S St St VSt H Fb Density	ency Very Soft Soft Firm Stiff Very Stiff Hard Friable V L MD	Vi La	UU <2 25 50 10 20 >4	CS (kPa 55 5 - 50 0 - 100 00 - 200 00 - 400 000	<ul> <li>Moisture Condition         <ul> <li>D Dry</li> <li>M Moist</li> <li>W Wet</li> <li>W<sub>p</sub> Plastic Limit</li> <li>W<sub>L</sub> Liquid Limit</li> </ul> </li> <li>Density Index &lt;15%         <ul> <li>Density Index 35 - 65%</li> </ul> </li> </ul>
ST LIB		transitional strata —— Definitive or distict strata change			HP	Hand	Penetro	ometer test (UCS kPa)		D VD	De Ve	ense erv De	ense	Density Index 65 - 85% Density Index 85 - 100%



### **ENGINEERING LOG - BOREHOLE** CLIENT:

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT LOCATION: 178 LANG STREET, KURRI KURRI

JOB NO: LOGGED BY:

DATE:

NEW22P-0213 TH / BE

**BH10** 

1 OF 1

5/12/22

	DRI BO	ILL 1 REH	YPE: OLE DIAN	2.7 <b>1ete</b> f	TONNE	EXCA 300 m	VATC m	DR WITH AUGER ATTACHMENT SUR DAT	FACE RL: UM:					
F		Dril	ling and Sar	npling				Material description and profile information				Field	d Test	
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plastic characteristics,colour,minor compone	ty/particle hts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
	AD/T	Not Encountered	0.10m E 0.20m 0.40m E 0.50m		- - - - - - - - - - -		GP	<ul> <li>0.04m FILL: ASPHALT - approximately 40mm th FILL: Sandy GRAVEL - fine to coarse gra brown to brown, fine to medium grained a sub-angular gravel, trace fines of low plas</li> <li>0.35m</li> <li>FILL: Gravelly SAND - fine to coarse grain to dark brown, fine to medium grained and sub-angular gravel, trace fines of low plas asbestos fragment.</li> </ul>	ick ned, pale ngular to ticity. ed, brown ular to ticity, trace	- M			-	ASPHALT FILL - PAVEMENT GRAVEL
_						<u>××××</u>		0.70m Silty SANDSTONE - fine grained, pale ora	nge and	D				SLIGHTLY WEATHERED
		END						palé grey, estimated low to medium streng         Hole Terminated at 0.70 m         Refusal	Ţ <u>tň.</u> /					ROCK
		GEND: U <sub>50</sub> ter U <sub>50</sub> CBR (Date and time shown) - Water Inflow ASS ◀ Water Outflow ata Changes B Gradational or Field			U <sub>50</sub> CBR E ASS B	50mn Bulk s Enviro (Glas Acid s (Plast Bulk s	n Diame sample onmenta s jar, se Sulfate S ic bag, Sample	zter tube sample for CBR testing al sample valed and chilled on site) Soil Sample air expelled, chilled)	VS V S S F F St S VSt V H H	'ery Soft oft irm tiff 'ery Stiff lard iriable		<pre>&lt;2 25 50 10 20 &gt;4</pre>	5 - 50 - 100 0 - 200 0 - 400 00	D Dry M Moist W Wet W <sub>p</sub> Plastic Limit W <sub>L</sub> Liquid Limit
		Water Level     E       (Date and time shown)     ASS       Water Inflow     ASS       Water Outflow     B       ta Changes     B       Gradational or transitional strata     Field PID       Definitive or distict strata change     DCP( HP				<u>ts</u> Photo Dynai Hand	ionisati nic pen Penetro	on detector reading (ppm) letrometer test (test depth interval shown) ometer test (UCS kPa)	<u>Density</u>	V L ME D VD		ery Lo pose ledium ense ery De	ose I Dense ense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%



DRILL TYPE:

## **ENGINEERING LOG - BOREHOLE**

CLIENT:

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT **LOCATION:** 178 LANG STREET, KURRI KURRI

2.7 TONNE EXCAVATOR WITH AUGER ATTACHMENT SURFACE RL:

JOB NO: LOGGED BY:

DATE:

TH / BE 5/12/22

**BH11** 

1 OF 1

NEW22P-0213

В	ORE	HOLE DIAN	<b>NETER</b>	<b>?</b> :	300 m	m	DATU	IM:					
	D	rilling and Sar	mpling				Material description and profile information				Fiel	d Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticity characteristics,colour,minor component	y/particle is	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
-BOREHOLE LOGS GPJ < <drawingfile>&gt; 21/12/2022 14:00 10.02.00.04 DatgetLab and In Stu Tool AD/T AD/T</drawingfile>	Not Encountered	0.10m E 0.20m 0.30m 0.40m 0.40m 0.80m E 0.90m		0.5		GP SP	<ul> <li>0.04m FILL: ASPHALT - approximately 40mm thic FILL: Sandy GRAVEL - fine to medium grai angular to sub-angular, pale brown to brow coarse grained sand, trace fines of low plase</li> <li>0.30m</li> <li>FILL: Gravelly SAND - fine to coarse graine to dark brown, fine to medium grained angu sub-angular gravel, trace fines of low plastic gravel, trace plasticity, red-brown grey, trace pale orange, trace fine to mediu rounded to sub-rounded gravel.</li> <li>Pale grey, with orange to red-brown and pa Hole Terminated at 2.00 m</li> </ul>	k ined, n, fine to tticity. 	 D-М	St	HP HP HP	150 180 150	ASPHALT FILL - PAVEMENT GRAVEL
LIB 1.1.GLB Log NON-CORED BOREHOLE - TEST PIT NEW22P-0213 - BOI	EGENI ater ∠ W (C — W ∢ W rata C	D: ater Level bate and time s ater Inflow ater Outflow thanges Gradational or transitional str. Definitive or di Definitive or di	hown) ata stict	Notes, Sa U <sub>50</sub> CBR E ASS B Field Tes PID DCP(x-y) HP	amples a 50mm Bulk s Envirse (Glast Bulk S ts Photo Dynar Hand	nd Tes Diame ample t inmentat i jar, se eulfate \$ c bag, ample ionisatio nic pen Penetro	ts ter tube sample for CBR testing al sample aled and chilled on site) Soil Sample air expelled, chilled) on detector reading (ppm) etrometer test (test depth interval shown) ometer test (UCS kPa)	Consiste VS V F F St S VSt V H F Fb F Density	ncy /ery Soft Soft firm Stiff fery Stiff fard Triable V L ME D	V L( ) M D	U 2 2 5 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	<b>CS (kP</b> 25 5 - 50 0 - 100 00 - 200 00 - 400 400 pose n Dense	a) Moisture Condition D Dry M Moist W Wet W <sub>p</sub> Plastic Limit W <sub>L</sub> Liquid Limit Density Index <15% Density Index 15 - 35% a Density Index 35 - 65% Density Index 65 - 85%



## **ENGINEERING LOG - BOREHOLE** CLIENT:

LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

1 OF 1

**BH12** 

NEW22P-0213

JOB NO: LOGGED BY:

DATE:

TH / BE 5/12/22

D	RILL	. TYPE: HOLE DIA	2.7 METEI	' TONNE <b>R</b> :	EXCA 300 m	VATC m	R WITH AUGER ATTACHMENT SURF	FACE RL: JM:				
F	D	rilling and S	ampling				Material description and profile information				Field Test	
METHOD	WATER	SAMPLE	s RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor componen	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type Result	Structure and additional observations
	Not Fincentintered	0.10m E 0.20m 0.50m E 0.60m 1.00m E 1.10m				GP SP	<ul> <li><sup>1.20m</sup> FILL: ASPHALT - approximately 40mm thic FILL: Sandy GRAVEL - fine to medium gra angular to sub-angular, pale brown to brow coarse grained sand, trace fines of low plast</li> <li><sup>0.40m</sup> FILL: Gravelly SAND - fine to coarse grained to dark brown, fine to medium grained ang sub-angular gravel, trace fines of low plastic clay pockets.</li> <li><sup>1.20m</sup> Sitty SANDSTONE - fine grained, pale orar pale grey, estimated low to medium strengt Hole Terminated at 1.21 m Refusal</li> </ul>	k ined, n, fine to sticity. ed, brown Jar to city, trace	≥ o			ASPHALT FILL - PAVEMENT GRAVEL
	EGEN Vater ✓ W ([] → W trata C	D: /ater Level /ater and time /ater Inflow /ater Outflow /ater Outflow /ater Outflow /ater Outflow /ater Outflow /ater Inflow /ater Inf	or e shown)	<u>Notes, Sa</u> U <sub>50</sub> CBR E ASS B <u>Field Tes</u> PID DCP(х-у) HP	mples a 50mm Bulk s Envirc (Glass Acid S (Plasti Bulk S ts Photo Dynar Hand	nd Tes Diame ample in ment is jar, se Sample ionisatii nic penetro	Es         ter tube sample         for CBR testing         al sample         aled and chilled on site)         Soil Sample         air expelled, chilled)         on detector reading (ppm)         etrometer test (test depth interval shown)         ormeter test (UCS kPa)	Consiste VS VS F F St S VSt V Fb F Density	Pincy /ery Soft Soft Firm -Friable V L ME D V V V	Ve Ld DØ Ve	UCS (kPr <25 25 - 50 50 - 100 200 - 400 >400 ery Loose edium Dense ense ery Dense	A)       Moisture Condition         D       Dry         M       Moist         W       Wet         Wp       Plastic Limit         WL       Liquid Limit         Density Index <15%         Density Index <15 - 35%         Density Index 35 - 65%         Density Index 65 - 85%         Density Index 85 - 100%



CLIENT:

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT **LOCATION:** 178 LANG STREET, KURRI KURRI

JOB NO: LOGGED BY: DATE:

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**BH13** 

1 OF 1

NEW22P-0213

	dri Boi	LL T REH	YPE: OLE DIAN	2.7 IETEF	TONNE R:	EXCA 300 m	VATC m	R WITH AUGER ATTACHMENT SURF DATL	ACE RL:					
F		Drill	ing and San	npling				Material description and profile information				Field	d Test	
	METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
			0.10m E 0.20m,		-			<u>PILL: ASPHALT - approximately 40mm thic</u> FILL: Sandy GRAVEL - fine to medium gra angular to sub-angular, pale brown to brow coarse grained sand, trace fines of low plase	k ined, n, fine to sticity.	М				ASPHALT FILL - PAVEMENT GRAVEL
			E <u>0.40m</u> 0.80m		- 0. <u>5</u> -		CL	0.30m FILL: Sandy CLAY - low plasticity, dark bro medium grained sand, trace fine grained su to angular gravel, trace fines of low plasticit	wn, fine to ub-angular y.					FILL
00	D/T	Encountered	E <u>0.90m</u> ,		- 1. <u>0</u>		CI	Sandy CLAY - medium plasticity, brown, wi to red-brown, fine to coarse grained sand, v fine grained sub-angular to angular gravel. 1.00m CLAY - medium plasticity, grey-white, with s	th orange with some			HP	180	RESIDUAL SOIL
22 14.00 10.02.00.04 Daiger Lab and III Situ 1	4	Not			- - - 1. <u>5</u>		CI	orange-brown, trace fine grained sand. Silty SANDSTONE band (approximately 50 thick).	Imm	M > W <sub>P</sub>	St - VSt	HP	220	
יטסיסרט איטוואטוואטיטאי צוו וצוצטי								Trace silt, pale grey-brown.				HP	150	
					-			2.05m Silty SANDSTONE - fine to coarse grained, orange-brown with some grey, estimated lo medium strength. Hole Terminated at 2.05 m Refusal	, w to	D				SLIGHTLY WEATHERED
		END: er (Dat (Dat Wat Wat	er Level e and time sl er Inflow er Outflow anges	hown)	Notes, Sa U <sub>50</sub> CBR E ASS B	mples and 50mm Bulk s Enviro (Glass Acid S (Plasti Bulk S	nd Tesi Diame ample f nmenta jar, se sulfate s c bag, a ample	ts ter tube sample or CBR testing al sample aled and chilled on site) soil Sample air expelled, chilled)	Consister VS V S S F F St S VSt V H H Fb F	ncy ery Soft oft irm tiff ery Stiff ard riable		U <2 25 50 10 20 >4	CS (kPa 25 5 - 50 0 - 100 00 - 200 00 - 400 400	) <u>Moisture Condition</u> D Dry M Moist W Wet W <sub>p</sub> Plastic Limit W <sub>L</sub> Liquid Limit
ULLIB 1.1.GLB LC		Gi tra De sti	radational or ansitional stra efinitive or dis rata change	ata stict	Field Test PID DCP(x-y) HP	i <b>s</b> Photoi Dynan Hand I	onisatio nic pen Penetro	on detector reading (ppm) etrometer test (test depth interval shown) meter test (UCS kPa)	<u>Density</u>	V L MC D VD	Ve Lo D D Ve	ery Lo bose ediun ense ery De	n Dense ense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%



LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

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Job No: Logged by:

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TH / BE 5/12/22

**BH14** 

NEW22P-0213

DI B(	RILL 1 OREH	TYPE: OLE DIAM	2.7 ETER	TONNE :	EXCA 300 m	VATC m	R WITH AUGER ATTACHMENT SURF	FACE RL: JM:					
	Dril	ling and Sam	pling				Material description and profile information				Field	d Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor componen	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
		0.10m E 0.20m 0.50m E 0.60m		0.5_		GP	0.04m FILL: ASPHALT - approximately 40mm thic FILL: Sandy GRAVEL - fine to medium gra angular to sub-angular, pale brown to brow coarse grained sand, trace fines of low plas 0.60m	ck ined, m, fine to sticity.	Μ				ASPHALT FILL - PAVEMENT GRAVEL
				-		CL	CLAY - low to medium plasticity, grey with red-brown and orange, trace fine grained sub-rounded to sub-angular gravel.	some		St	HP HP	150 110	COLLUVIUM / RESIDUAL SOIL
D/T	Encountered	1.00m E		- 1. <u>0</u>			CLAY - medium plasticity, red-brown, with trace pale orange, trace fine grained sand.	pale grey,		VSt	ΗP	280	RESIDUAL SOIL
	Not E	<u>(1.10m</u> ) <u>1.50m</u> <u>E</u> <u>1.60m</u>				СІ			M > Wp	St	PP PP	200 180	
				2.0			Pale grey and pale orange, with red-brown           2.10m           2.15m         Silty SANDSTONE - fine grained, pale orar           vale grey, estimated low to medium streng	 nge and th/	D			180	SLIGHTLY WEATHERED
	GEND:			- Notes. Sa	mples a	nd Tes	Hole Terminated at 2.15 m Refusal	Consiste	ncy		U	CS (kPa	) Moisture Condition
	ater Ua (Da – Wa ⊲ Wa • Wa	ter Level te and time sh ter Inflow ter Outflow anges irradational or ansitional stro	iown)	U <sub>50</sub> CBR E ASS B <u>Field Test</u> PID	50mm Bulk s Enviro (Glass Acid S (Plasti Bulk S S Photo	a Diame ample to onmenta s jar, se Sulfate S ic bag, s Sample		VS V S S F F St S VSt V H F Fb F Density	/ery Soft Soft Stiff /ery Stiff lard Friable V L	Ve	25 50 10 20 25 50 20<	25 5 - 50 0 - 100 00 - 200 00 - 400 400 pose	D Dry M Moist W Wet W <sub>p</sub> Plastic Limit W <sub>L</sub> Liquid Limit Density Index <15% Density Index 15 - 35%
	un — D st	efinitive or dis trata change	tict	DCP(x-y) HP	Dynar Hand	nic pen Penetro	etrometer test (test depth interval shown) ometer test (UCS kPa)		ME D VD	) M De Ve	edium ense ery De	n Dense ense	<ul> <li>Density Index 35 - 65%</li> <li>Density Index 65 - 85%</li> <li>Density Index 85 - 100%</li> </ul>



CLIENT:

BOREHOLE NO:

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT **LOCATION:** 178 LANG STREET, KURRI KURRI

JOB NO: LOGGED BY: DATE:

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D B	RILL 1 OREH	IYPE: IOLE DIAN	2.7 <b>/ETE</b>	7 TONNE <b>R</b> :	EXCA 300 m	VATC m	R WITH AUGER ATTACHMENT SURF DATU	ACE RL:					
	Dril	lling and Sar	npling				Material description and profile information				Field	d Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticity characteristics,colour,minor component	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
					~~~~		0.04m FILL: ASPHALT - approximately 40mm thic	k.					ASPHALT
		0.10m E 0.20m				GP	FILL: Sandy GRAVEL - fine to medium grai angular to sub-angular, pale brown to brown coarse grained sand, trace fines of low plas	n, fine to sticity.	м				FILL - PAVEMENT GRAVEL
				-			0.34m FILL: ASPHALT - approximately 40mm thic	<u>k.                                    </u>	D	1			ASPHALT
		0.50m		0.5		GP	FILL: Sandy GRAVEL - fine to medium grai angular to sub-angular, pale brown to brown coarse grained sand, trace fines of low plas	ined, n, fine to sticity.	м				FILL - PAVEMENT GRAVEL
	ntered	E 0.60m					FILL: Gravelly SAND - fine to coarse graine to dark brown, fine to medium grained angu sub-angular gravel, trace clay fines of low p	d, brown Ilar to Ilasticity.				-	FILL
AD/T	Not Encour	<u>1.10m</u>	-	1. <u>0</u>		SP	With clay.		м				
		E 1.20m											
		1.50m E 1.60m		- 1. <u>5</u>		<	<u>1.60m</u>						
						СІ	FILL: CLAY - medium plasticity, dark brown some grey-brown, trace glass fragments.	i, with	M ~ W <sub>P</sub>				
				2.0	- - -		Note: The provided at 1.91 m (Value) Sity SANDSTONE - fine grained, pale oran (Vale or the pale grey, estimated low to medium strengt Hole Terminated at 1.91 m Refusal	ge and h					SLIGHTLY WEATHERED ROCK
					-								
LE	GEND:	1		Notes, Sa	mples a	nd Tes	ts	Consister	ncy	I	UC	CS (kPa	Moisture Condition
W	ater				50mm Bulk s	n Diame ample	ter tube sample or CBR testing		ery Soft		<2 25	5 - 50	D Dry M Moist
	Wa	ter Level		E	Enviro	onment	al sample	5 5	irm		∠5 50	- 100	W Wet
	(Da	te and time s	hown)	400	(Glass	s jar, se	aled and chilled on site)	St S	tiff		10	0 - 200	W <sub>p</sub> Plastic Limit
	- vva ∢ Wa	ter Outflow		ASS	Acid S (Plast	ic bad	oou ⊳ample air expelled, chilled)	vst V   н н	ery Stiff lard		20 >4	u - 400 00	VV <sub>L</sub> Liquid Limit
	rata Ch	anges		в	Bulk S	Sample		Fb F	riable				
	G	Gradational or		Field Tes	ts Photo	ionisati	n detector reading (nnm)	Density	V	V	ery Lo	ose	Density Index <15%
2	tr ר	ansitional stra efinitive or di	ata stict	DCP(x-y)	Dynar	nic pen	etrometer test (test depth interval shown)		ME	D M	ledium	Dense	Density Index 35 - 65%
	Definitive or distict strata change			Hand	Penetro	ometer test (UCS kPa)	D Dense VD Verv Dense			ense	Density Index 65 - 85% Density Index 85 - 100%		

BH15 1 OF 1 NEW22P-0213



## **ENGINEERING LOG - BOREHOLE** CLIENT:

LOCATION: 178 LANG STREET, KURRI KURRI

**PROJECT:** PROPOSED COMMERCIAL DEVELOPMENT

VOLTRAINT PTY LTD C/- JNA ADVISORY PTY LTD PAGE:

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**BH16** 

E	ORILL BOREH	TYPE: IOLE DIAN	2.7 IETER	TONNE	EXCA 300 m	VATC m	DR WITH AUGER ATTACHMENT SURF	FACE RL: JM:					
	Dr	illing and Sar	npling				Material description and profile information				Fiel	d Test	
METHOD	WATER	SAMPLES	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION: Soil type, plasticit characteristics,colour,minor componen	y/particle ts	MOISTURE CONDITION	CONSISTENCY DENSITY	Test Type	Result	Structure and additional observations
	ountered	0.10m E 0.20m 0.30m E 0.40m		- - - - - - - - - - - -		GP SP	0.05m FILL: ASPHALT - approximately 50mm thic FILL: Sandy GRAVEL - fine to medium gra angular to sub-angular, pale brown to brow coarse grained sand, trace fines of low plas 0.30m FILL: Gravelly SAND - fine to coarse graine to dark brown, fine to medium grained ang sub-angular gravel, trace fines of low plasti brick fragments.	k. ined, n, fine to sticity. ed, brown Jar to city, trace	M				ASPHALT FILL - PAVEMENT GRAVEL
	Not Enco	<u>1.00m</u>		- 1. <u>0</u> - - - - - - - - - - - - - - - - - - -		CI	CLAY - medium plasticity, pale grey, with re Red-brown.	ed-brown.	M > Wp	St	HP	180	RESIDUAL SOIL
	EGEND Vater Uater Wa Wa Strata Ci	ter Level ate and time s ater Inflow ater Outflow anges	hown)	- 2.0_ - - - - - - - - - - - - - - - - - - -	mples a 50mm Bulk s Envirc (Glass Acid S (Plasti Bulk S	nd Tes Diame ample i jar, se Sulfate \$ ic bag, sample	<ul> <li>Sitty SANDSTONE - fine grained, pale orar pale grey, estimated low to medium strengt Hole Terminated at 1.86 m Refusal</li> <li>Iss ter tube sample ter tube sample aled and chilled on site) Soil Sample air expelled, chilled)</li> </ul>	rge and th. VS V S S F F St S VSt V H H F Doneity	ncy ery Soft iff ery Stiff ard riable		U <2 2 5 0 10 20 20 20	CS (kPa 55 5 - 50 0 - 100 00 - 2000 100 - 2000	a)       Moisture Condition         D       Dry         M       Moist         Wy       Wet         Wp       Plastic Limit         WL       Liquid Limit
	Gradational or transitional strata     Field Tests       Definitive or distict strata change     PID     Photoionisation detector reading (ppm)       DCP(x-y)     Dynamic penetrometer test (test depth interval shown)       HP     Hand Penetrometer test (UCS kPa)			Density	V L ME D VD	Vi La Di Di Vi	ery Lo bose lediun ense ery De	n Dense ense	Density Index <15% Density Index 15 - 35% Density Index 35 - 65% Density Index 65 - 85% Density Index 85 - 100%				

# APPENDIX I: Tables

																				LABORAT
						Field ID	BH01 0.1-0.2	BH02 0.1-0.2	вноз 0.25-0.35	BH04 0.15-0.25	BH05 0.15-0.25	BH06 0.2-0.3	BH07 0.1-0.2	BH08 0.1-0.2	BH09 0.1-0.2	BH10 0.1-0.2	BH10 0.4-0.5	BH10 0.4-0.5 ACM	BH11 0.3-0.4	BH12 0.5-
						Date	1/12/2022	1/12/2022	1/12/2022	1/12/2022	1/12/2022	1/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/202
Analytes	L	Jnits	LOR	HIL/HSL D <sup>1</sup>	EIL/ESL D	Mgmt Limits														
	pH (1:5 Aqueous extract) pH	units	0.1				-	-		-	-	-	-	-	-	-	-	-	-	-
рн & сес	Cation Exchange Capacity me	q/100g	0.1				-	-		-	-	-	-	-	-	-	-	-	-	-
	Arsenic rr	ig/kg	2	3000	160		< 2	< 2	8.2	< 2	< 2	< 2	7.2	7	6.2	-	8.4	-	8	6.7
	Cadmium m	ng/kg	0.4	900			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	< 0.4	-	< 0.4	< 0.4
	Chromium m	ng/kg	5	3600	680**		< 5	10	9.8	< 5	7.2	15	7.8	6.1	5.2	-	22	-	20	8.5
Motals	Copper m	ng/kg	5	240000	300**		< 5	7.7	17	15	5.3	7.3	12	11	10	-	23	-	6.4	8.7
IVICIAIS	Lead m	ng/kg	5	1500	1800		< 5	< 5	8	< 5	< 5	< 5	5.1	5.5	< 5	-	210	-	55	13
	Mercury m	ng/kg	0.1	730			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	2	-	0.7	< 0.1
	Nickel m	ng/kg	5	6000	260*		< 5	11	24	13	8.4	17	11	12	9.9	-	12	-	< 5	7.9
	Zinc m	ng/kg	5	400000	720*		< 5	27	67	13	10	19	45	42	40	-	220	-	160	44
	Acenaphthene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Acenaphthylene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Anthracene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Benzo(a)anthracene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Benzo(a)pyrene m	ng/kg	0.5		1.4		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Benzo(a)pyrene TEQ m	ng/kg	0.5	40			0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-	0.6	-	0.6	0.6
	Benzo(b&j)fluoranthene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Benzo(ghi)perylene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
PAHs	Benzo(k)fluoranthene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Chrysene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Dibenzo(ah)anthracene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Fluoranthene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Fluorene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Indeno(1,2,3-cd)pyrene m	ng/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Naphthalene m	ig/kg	0.5	NL	370		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Phenanthrene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Pyrene m	ig/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Total PAH (18) m	ng/kg	0.5	4000			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	Benzene m	ig/kg	0.1	4	95		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	< 0.1
BTEX	Toluene m	ig/kg	0.1	NL	135		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	< 0.1
	Ethylbenzene m	ng/kg	0.1	NL	185		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.1	< 0.1
	Xylenes - Total m	ig/kg	0.3	NL	95		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	-	< 0.3	-	< 0.3	< 0.3
	Naphthalene m	ng/kg	0.5		215		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	< 0.5
	TRH C6-C10 m	ng/kg	20		215	700	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	< 20	-	< 20	< 20
	TRH C6-C10 less BTEX (F1) m	ng/kg	20	310			< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-	< 20	-	< 20	< 20
TRH	TRH >C10-C16 m	ng/kg	50		170	5200	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	-	< 50	-	< 50	< 50
	TRH >C10-C16 less Naphthalene (F2) m	ng/kg	50	NL			< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	-	< 50	-	< 50	< 50
	TRH >C16-C34 m	ng/kg	100		2500	10000	< 100	< 100	180	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100
	TRH >C34-C40 m	ng/kg	100		6600	10000	< 100	< 100	170	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100
Asbestos	Asbestos			Detected			-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Chrysotile asbestos detected.	ND	ND

Notes

\*

EIL based on pH of 6.6, CEC of 9.5meq/100m, and Clay content 10% from samples onsite, and background levels from

Olszowy et al (1995) Trace Element Concentrations in Soils from Rural and Urban Areas of Australia, Old Suburbs, High Traffic, 25% percentile

ND Not detected

NL Not limiting Result Concentration

Concentration exceeds adopted health investigation/screening level (Commercial/Industrial, Clay, 0-1m)

Result Concentration exceeds the adopted ecological investigation/screening levels

Result Concentration exceeds adopted Management Limits

1 ASC NEPM (2013) Table 1A(1): Health Investigation Levels (HILs) commercial/industrial

2 ASC NEPM (2013) Soil Health Screening Levels for Vapour Intrusion, Commercial/Industrial, Clay 0m to <1m

3 ASC NEPM (2013) Soil Ecological Investigation & Screening Levels, commercial/industrial

4 ASC NEPM (2013) Management Limits for TPH Fractions F1-F4 in Soil, adjusted as described in report



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						Field ID	BH13 0.1-0.2	BH14 0.1-0.2	BH15 0.5-0.6	BH16 0.3-0.4	SA BH07 0.1-0.2	SA BH07 0.5-0.6	SA BH07 1.0-1.1
						Date	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022	5/12/2022
Analytes		Units	LOR	HIL/HSL D <sup>1</sup>	EIL/ESL D	Mgmt Limits							
	pH (1:5 Aqueous extract)	pH units	0.1				-	-	-	-	7.8	5.4	6.7
PH&CEC	Cation Exchange Capacity	meq/100g	0.1				-	-	-	-	8.1	9.4	11
	Arsenic	mg/kg	2	3000	160		6.5	5.6	12	11	-	-	-
	Cadmium	mg/kg	0.4	900			< 0.4	< 0.4	0.7	0.5	-	-	-
	Chromium	mg/kg	5	3600	680**		5.3	< 5	23	26	-	-	-
Motals	Copper	mg/kg	5	240000	300**		10	8.6	44	33	-	-	-
IVIEtais	Lead	mg/kg	5	1500	1800		< 5	< 5	300	320	-	-	-
	Mercury	mg/kg	0.1	730			< 0.1	< 0.1	0.1	0.3	-	-	-
	Nickel	mg/kg	5	6000	260*		11	8.7	38	23	-	-	-
	Zinc	mg/kg	5	400000	720*		42	35	440	450	-	-	-
	Acenaphthene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Acenaphthylene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Anthracene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Benzo(a)anthracene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Benzo(a)pyrene	mg/kg	0.5		1.4		< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Benzo(a)pyrene TEQ	mg/kg	0.5	40			0.6	0.6	0.6	0.6	-	-	-
	Benzo(b&j)fluoranthene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Benzo(ghi)perylene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
ΡΔHs	Benzo(k)fluoranthene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
T ATIS	Chrysene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Dibenzo(ah)anthracene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Fluoranthene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	0.8	-	-	-
	Fluorene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Indeno(1,2,3-cd)pyrene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Naphthalene	mg/kg	0.5	NL	370		< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Phenanthrene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	Pyrene	mg/kg	0.5				< 0.5	< 0.5	< 0.5	0.8	-	-	-
	Total PAH (18)	mg/kg	0.5	4000			< 0.5	< 0.5	< 0.5	1.6	-	-	-
	Benzene	mg/kg	0.1	4	95		< 0.1	< 0.1	< 0.1	< 0.1	-	-	-
BTEX	Toluene	mg/kg	0.1	NL	135		< 0.1	< 0.1	< 0.1	< 0.1	-	-	-
BIER	Ethylbenzene	mg/kg	0.1	NL	185		< 0.1	< 0.1	< 0.1	< 0.1	-	-	-
	Xylenes - Total	mg/kg	0.3	NL	95		< 0.3	< 0.3	< 0.3	< 0.3	-	-	-
	Naphthalene	mg/kg	0.5		215		< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	TRH C6-C10	mg/kg	20		215	700	< 20	< 20	< 20	< 20	-	-	-
	TRH C6-C10 less BTEX (F1)	mg/kg	20	310			< 20	< 20	< 20	< 20	-	-	-
TRH	TRH >C10-C16	mg/kg	50		170	5200	< 50	< 50	< 50	< 50	-	-	-
	TRH >C10-C16 less Naphthalene (F2)	mg/kg	50	NL			< 50	< 50	< 50	< 50	-	-	-
T T	TRH >C16-C34	mg/kg	100		2500	10000	< 100	< 100	110	< 100	-	-	-
	TRH >C34-C40	mg/kg	100		6600	10000	< 100	< 100	< 100	< 100	-	-	-
Asbestos	Asbestos			Detected			ND	ND	ND	ND	-	-	-

Notes

\*

EIL based on pH of 6.6, CEC of 9.5meq/100m, and Clay content 10% from samples onsite, and background levels from

Olszowy et al (1995) Trace Element Concentrations in Soils from Rural and Urban Areas of Australia, Old Suburbs, High Traffic, 25% percentile

ND Not detected

NL Not limiting Result Concentration

Concentration exceeds adopted health investigation/screening level (Commercial/Industrial, Clay, 0-1m)

Result Concentration exceeds the adopted ecological investigation/screening levels

Result Concentration exceeds adopted Management Limits

1 ASC NEPM (2013) Table 1A(1): Health Investigation Levels (HILs) commercial/industrial

2 ASC NEPM (2013) Soil Health Screening Levels for Vapour Intrusion, Commercial/Industrial, Clay 0m to <1m

3 ASC NEPM (2013) Soil Ecological Investigation & Screening Levels, commercial/industrial

4 ASC NEPM (2013) Management Limits for TPH Fractions F1-F4 in Soil, adjusted as described in report



					Field ID	BH02 0.1-0.2	BH03 0.25-0.35	BH06 0.2-0.3	BH10 0.4-0.5	BH14 0.1-0.2
					Date		1/12/2022		5/12/2022	5/12/2022
Analytes		Units	LOR	HIL-D <sup>1</sup>	EIL-D <sup>2</sup>					
-	4.4'-DDD	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	4.4'-DDE	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	4.4'-DDT	mg/kg	0.05		640	< 0.05	-	< 0.05	< 0.05	< 0.5
	а-НСН	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Aldrin	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Aldrin and Dieldrin (Total)*	mg/kg	0.05	45		< 0.05	-	< 0.05	< 0.05	< 0.5
	b-HCH	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Chlordanes - Total	mg/kg	0.1	530		< 0.1	-	< 0.1	< 0.1	< 1
	DDT + DDE + DDD (Total)*	mg/kg	0.05	3600		< 0.05	-	< 0.05	< 0.05	< 0.5
	d-HCH	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Dieldrin	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Endosulfan I	mg/kg	0.05	2000		< 0.05	-	< 0.05	< 0.05	< 0.5
OCPs	Endosulfan II	mg/kg	0.05	2000		< 0.05	-	< 0.05	< 0.05	< 0.5
	Endosulfan sulphate	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Endrin	mg/kg	0.05	100		< 0.05	-	< 0.05	< 0.05	< 0.5
	Endrin aldehyde	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Endrin ketone	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	g-HCH (Lindane)	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Heptachlor	mg/kg	0.05	50		< 0.05	-	< 0.05	< 0.05	< 0.5
	Heptachlor epoxide	mg/kg	0.05			< 0.05	-	< 0.05	< 0.05	< 0.5
	Hexachlorobenzene	mg/kg	0.05	80		< 0.05	-	< 0.05	< 0.05	< 0.5
	Methoxychlor	mg/kg	0.05	2500		< 0.05	-	< 0.05	< 0.05	< 0.5
	Toxaphene	mg/kg	0.5	160		< 0.5	-	< 0.5	< 0.5	< 10
	Vic EPA IWRG 621 OCP (Total)*	mg/kg	0.1			< 0.1	-	< 0.1	< 0.1	< 1
	Vic EPA IWRG 621 Other OCP (Total)*	mg/kg	0.1			< 0.1	-	< 0.1	< 0.1	< 1
	2.4.5-Trichlorophenol	mg/kg	1			-	< 1	-	-	-
	2.4.6-Trichlorophenol	mg/kg	1			-	< 1	-	-	-
	2.4-Dichlorophenol	mg/kg	0.5			-	< 0.5	-	-	-
	2.6-Dichlorophenol	mg/kg	0.5			-	< 0.5	-	-	-
	2-Chlorophenol	mg/kg	0.5			-	< 0.5	-	-	-
	4-Chloro-3-methylphenol	mg/kg	1			-	< 1	-	-	-
	Pentachlorophenol	mg/kg	1	660		-	< 1	-	-	-
	Tetrachlorophenols - Total	mg/kg	10			-	< 10	-	-	-
	Total Halogenated Phenol*	mg/kg	1			-	< 1	-	-	-
	2.4-Dimethylphenol	mg/kg	0.5			-	< 0.5	-	-	-
Phenols	2.4-Dinitrophenol	mg/kg	5			-	< 5	-	-	-
	2-Cyclohexyl-4.6-dinitrophenol	mg/kg	20			-	< 20	-	-	-
	2-Methyl-4.6-dinitrophenol	mg/kg	5			-	< 5	-	-	-
	2-Methylphenol (o-Cresol)	mg/kg	0.5			-	< 0.5	-	-	-
	2-Nitrophenol	mg/kg	1			-	< 1	-	-	-
	3&4-Methylphenol (m&p-Cresol)	mg/kg	1			-	< 1	-	-	-
	4-Nitrophenol	mg/kg	5			-	< 5	-	-	-
	Dinoseb	mg/kg	20			-	< 20	-	-	-
	Phenol	mg/kg	0.5	240000		-	< 0.5	-	-	-
	Total cresols*	mg/kg	1	25000		-	< 1	-	-	
	Total Non-Halogenated Phenol*	mg/kg	20			-	< 20	-	-	-

Notes

**Result** Concentration exceeds adopted health investigation level (Commercial/Industrial)

Result Concentration exceeds the adopted ecological investigation/screening levels

1 ASC NEPM (2013) - Table 1A(1): Health Investigation Levels

2 ASC NEPM (2013) Soil Ecological Investigation & Screening Levels, commercial/industrial



Votraint	No	124
NEW22P-	-021	3-AA

## Table 3 - Quality Control Results 178 Lang Street, Kurri Kurri

				BH07_0.1-0.2	D.5.12.22		BH07_0.1-0.2	T.5.12.22	
				5/12/2022	5/12/2022	RPD %	5/12/2022	5/12/2022	RPD %
				Primary	Duplicate		Primary	Triplicate	
Analytes		Units	LOR						
	Arsenic	mg/kg	2	7.2	7.1	1	7.2	6	18
	Cadmium	mg/kg	0.4	< 0.4	< 0.4	0	< 0.4	<1	0
	Chromium	mg/kg	5	7.8	5.8	29	7.8	6	26
Motale	Copper	mg/kg	5	12	11	9	12	10	18
IVIELAIS	Lead	mg/kg	5	5.1	5.2	2	5.1	<5	0
	Mercury	mg/kg	0.1	< 0.1	< 0.1	0	< 0.1	< 0.1	0
	Nickel	mg/kg	5	11	11	0	11	9	20
	Zinc	mg/kg	5	45	45	0	45	39	14
	Acenaphthene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Acenaphthylene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Anthracene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Benzo(a)anthracene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Benzo(a)pyrene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Benzo(a)pyrene TEQ	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0
	Benzo(b&j)fluoranthene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Benzo(ghi)perylene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
PΔHs	Benzo(k)fluoranthene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
FAIIS	Chrysene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Dibenzo(ah)anthracene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Fluoranthene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Fluorene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Indeno(1,2,3-cd)pyrene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Naphthalene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Phenanthrene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Pyrene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Total PAH (18)	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	< 0.5	0
	Benzene	mg/kg	0.1	< 0.1	< 0.1	0	< 0.1	<0.2	0
RTEY	Toluene	mg/kg	0.1	< 0.1	< 0.1	0	< 0.1	<0.5	0
DILA	Ethylbenzene	mg/kg	0.1	< 0.1	< 0.1	0	< 0.1	<0.5	0
	Xylenes - Total	mg/kg	0.3	< 0.3	< 0.3	0	< 0.3	<0.5	0
	Naphthalene	mg/kg	0.5	< 0.5	< 0.5	0	< 0.5	<1	0
	TRH C6-C10	mg/kg	20	< 20	< 20	0	< 20	<10	0
	TRH C6-C10 less BTEX (F1)	mg/kg	20	< 20	< 20	0	< 20	<10	0
TRH	TRH >C10-C16	mg/kg	50	< 50	< 50	0	< 50	<50	0
	TRH >C10-C16 less Naphthalei	mg/kg	50	< 50	< 50	0	< 50	<50	0
	TRH >C16-C34	mg/kg	100	< 100	< 100	0	< 100	<100	0
	TRH >C34-C40	mg/kg	100	< 100	< 100	0	< 100	<100	0

\*RPDs have only been considered where a concentration is greater than 10 times the LOR.

\*\*High RPDs are in bold (Acceptable RPD range is 30% (>10 x EQL))



APPENDIX J: Data Validation Report

#### QA/QC DATA VALIDATION REPORT Job No: NEW22P-0213-AA

Eurofins report: 947926-S, 947926-AID ALS reports: ES2244543\_0\_COA

#### 1. SAMPLE HANDLING

Item	Yes/No	Comments
Were the sample holding times met?	Yes	
Were the samples in proper custody between collection in the field and reaching the laboratory?	Yes	
Were the samples properly and adequately preserved?	Yes	
Were the samples received by the laboratory in good condition?	Yes	

#### Sampling Handling was:

Satisfactory : √	Partially Satisfactory:	Unsatisfactory:
------------------	-------------------------	-----------------

#### 2. PRECISION AND ACCURACY ASSESSMENT

Item	Yes/No	Comment
Was a NATA registered laboratory used?	Yes	-
Did the laboratory perform the requested tests?	Yes	-
Were the laboratory methods adopted NATA endorsed?	Yes	-
Were the appropriate test procedures followed?	Yes	-
Were the reporting limits satisfactory?	Yes	-
Was the NATA seal on the reports?	Yes	-
Were the reports signed by an authorised person?	Yes	-

#### Laboratory Precision and Accuracy was:

	Satisfactory : $\checkmark$	Partially Satisfactory:	Unsatisfactory:
--	-----------------------------	-------------------------	-----------------

## 3. FIELD QA/QC

#### Soil Samples

	Soil
No. Samples Analysed	16
No. of Duplicates	1
No. of Triplicates	1
No. of Wash Blanks	0
No. of Trip Blanks	0
No. of Trip Spikes	0

## No. Days Sampling

Item	Soil
Number of Days Sampling	2
Number of Sampling Events	1

#### **Field Duplicates**

Item	Yes/No         Comments           Duplicates collected at a rate of per samples.							
Were an adequate number of field duplicates collected?	Yes	Duplicates collected at a rate of 16 per samples.						
Were RPDs within control limits? No Limit for 5-10 x EQL and 30% for >10 x EQL	Yes	RPDs were within the acceptable range.						

### Trip Blanks/Trip Spikes

Item	Yes/No	Comments
Were an adequate number of trip blanks and trip spikes collected?	N/A	No trip spikes or blanks were collected as VOCs were not a primary contaminant of concern. This was supported by field observations.
Were the trip blanks free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals).	N/A	
Were the trip spikes within recovery limits (between 80% and 120%)	N/A	

## **Rinsate Samples**

Item	Yes/No	Comments
Were an adequate number of rinsate samples used? (1 per day of using reusable sampling	No	No rinsate samples were collected. As samples reported concentrations below the adopted criteria, and there was no evidence

### QA/QC DATA VALIDATION REPORT

equipment – trowel, hand auger etc)		of cross-contamination, the absence of a rinsate sample is not considered to affect the data usability.
Were the rinsate samples free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals).	N/A	

#### 4. LABORATORY INTERNAL QUALITY CONTROL PROCEDURES

A) Type of QA/QC Sample	Yes/No	Comments
Laboratory Blanks/Reagent Blanks (at least 1 per batch)	Yes	-
Laboratory Duplicates (at least 1 per batch or 1 per 10 samples)	Yes	-
Matrix Spikes, Matrix Spike Duplicates (1 for each soil type)	Yes	-
Laboratory Control Spike	Yes	-
Surrogate (where appropriate)	Yes	-

Item	Yes/No	Comments
<b>B)</b> Were the laboratory blanks and/or reagent blanks free of contamination?	Yes	-
C) Were the spike recoveries within control limits? I: Organics/inorganics/metals (50% to 150%) II: Phenols (20% to 130%)	Yes	-
<b>D)</b> Were the RPDs of the laboratory duplicates within control limits?	Yes	For an RPD for moisture the lab quoted code Q15 which states "The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report." Based on this, the RPDs is not considered to affect the data usability.
E) Were the surrogate recoveries within control limits?	Yes	-

#### Laboratory Internal QA/QC was:

	Satisfactory : √	Partially Satisfactory:	Unsatisfactory:
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#### QA/QC DATA VALIDATION REPORT

#### 5. DATA USABILITY

Item	Yes/No	Comments
Was the data directly usable?	Yes	
Was the data usable with the following corrections/modifications? (see comments)	NA	
Was the data not usable?	NA	

# **APPENDIX K:** Laboratory Documentation

Eurohas I Environment Testing ABN 50 005 085 521 Company Qualtest			Unit F3 Blo 02 9900 84	d.F16 Mar 100 Env	s Road Lan iroSampleN	e Cove Wesl NSW 2 SW@eurofins.com	066 Unit 07 3	1 21 Smallwood P 902 4600 Enviro	y lace Murarrie SampleQLD(	QLD 4172 @eurofins.com	Unb 3	n Laboratory I WI Leasts Highway Ke 251 9600 EnviroSamp	leWA@eur	ofins.con	n		L	_ Mei 03.8	564 500	Laboratory 0	r Vic 1971. Brambra com	
Company	Qualtest			ect N2	NE	W22P-02	13	Project Manager Emma Colem			man	ian Sampler(s)					Топ	Hall				
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														E	mail fo	or Invo	ice	acc	ount	ts@q	ualtest.com.	au
Contact Name	Emma Coleman	Emma Coleman 0429 359 411												E	mail fo	r Resu	lts.	libby billys	əetz@c now@	qualtest qualtest	.com.au emmacoler t.com.au tomhali@	.man@qualtest.com.a
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	BH02 0.1-0.2	1/12/22	SOIL	×	X	×			15								+	-	1	1		
	BH02 0.2-0.3	1/12/22	SOIL						3										1			
	BH03 0.1-0.2	1/12/22	SOIL																1	1		
	BH02 0.3-0.35	1/12/22	SOIL				X												1	1		
	BH02 0.35-0.45	1/12/22	SOIL	X	X														1	1		
	BH03 0.45-0.55	1/12/22	SOIL																1	1		
	BH03 0.7-0.8	1/12/22	SOIL							_									1			
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Eurofins Environment Testing Australia Pty Ltd

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	BH10 0.1-0.2	5/12/22	SOIL		X										i T			1	1		
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	BH11 0.1-0.2	5/12/22	SOIL	2											ł			1	1		
	BH11 0.3-0.4	5/12/22	SOIL	X	X													1	1		
	BH11 0.8-0.9	5/12/22	SOIL															1			
	BH12 0.1-0.2	5/12/22	SOIL															1	1		
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	BH13 0.3-0.4	5/12/22	SOIL										1			1	1		
	BH13 0.8-0.9	5/12/22	SOIL													1	1		
	BH14 0.1-0.2	5/12/22	SOIL	×	X	X							1			1	1		
	BH14 0.5-0.6	5/12/22	SOIL													1	1		
	BH14 0.6-0.7	5/12/22	SOIL													1			
	BH15 0.1-0.2	5/12/22	SOIL													1	1		
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1	BH15 1.1-1.2	5/12/22	SOIL																	1	1		
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3	BH16 0.1-0.2	5/12/22	SOIL													1				1	1		
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8	SA BH07 1.0-1.1	5/12/22	SOIL				×	x	X											1			
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Modified by Dr R Symons Approved by G. Jackson Approved on & August 2010

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#### Jaidyn Slowgrove

From:	Emma Coleman <emmacoleman@qualtest.com.au></emmacoleman@qualtest.com.au>
Sent:	Wednesday, 7 December 2022 2:02 PM
To:	Jaidyn Slowgrove
Subject:	RE: NEW22P-0213 Sample names not matching COC

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Jaidyn,

Ok, revised testing for BH03 samples as per below: BH03 0.2-0.35 should be 0.2-0.25. No testing of this sample BH03 0.25-0.35 - Suite B7, Phenols, asbestos (presence/absence) BH03 0.4-0.5 no testing

Thanks

From: Jaidyn Slowgrove <Jaidyn Slowgrove@eurofins.com> Sent: Wednesday, 7 December 2022 1:47 PM To: Emma Coleman <EmmaColeman@qualtest.com.au> Subject: RE: NEW22P-0213 Sample names not matching COC

Hi Emma,

I have samples BH03\_0.2-0.35 (JAR, BAG), BH03\_0.25-0.35 (JAR, BG) and BH03\_0.4-0.5 (JAR BAG). Along with this I also have 2 bag labelled BH08-

Jaidyn Slowgrove Sample Receipt Officer (he/him) SAND GATE, NSW, 2304 Mobile: +61 473 758 881 E-mail: jaidynslowgrove@eurofins.com

From: Emma Coleman <<u>EmmaColeman@ qualtest.com.au</u>> Sent: Wednesday, 7 December 2022 1:40 PM To: Jaidyn Slowgrove <JaidynSlowgrove@eurofins.com> Subject: RE: NEW22P-0213 Sample names not matching COC

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Hi Jaidyn,

Looks like I numbered some samples on the COC as BH02, when they are actually BH03. Are there any other BH03 samples? I'm trying to match up our log with what actually exists



## **Environment Testing**

#### Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521		
Melbourne	Geelong	Sydney
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road
Dandenong South	Grovedale	Girraween
VIC 3175	VIC 3216	NSW 2145
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400
NATA# 1261 Site# 1254	NATA# 1261 Site# 1254	NATA# 1261 Site# 18217

Canberra Brisbane Unit 1.2 Dacre Street 1/21 Smallwood Place Mitchell Murarrie ACT 2911 QLD 4172 Tel: +61 2 6113 8091 Tel: +61 7 3902 4600

Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 NATA# 1261 Site# 20794 NATA# 1261 Site# 25079

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

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Eurofins ARL Pty Ltd Eurofins Environment Testing NZ Ltd NZBN: 9429046024954 Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51

IANZ# 1327

EnviroSales@eurofins.com

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

#### **Sample Receipt Advice**

Company name:	Qualtest
Contact name:	Emma Coleman
Project name:	VOLTRAINT KURRI KURRI
Project ID:	NEW22P-0213
Turnaround time:	5 Day
Date/Time received	Dec 6, 2022 2:40 PM
Eurofins reference	947926

#### **Sample Information**

- A detailed list of analytes logged into our LIMS, is included in the attached summary table. 1
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- Split sample sent to requested external lab. /
- X Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

#### **Notes**

#### Contact

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

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Emma Coleman - emmacoleman@qualtest.com.au.

Note: A copy of these results will also be delivered to the general Qualtest email address.

## Global Leader - Results you can trust



# Certificate of Analysis

# **Environment Testing**

Qualtest 2 Murray Dwyer Circuit Mayfield West NSW 2304



NATA Accredited Accreditation Number 1261 Site Number 18217

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

Attention:	Emma Coleman
Report	947926-AID
Project Name	VOLTRAINT KURRI KURRI
Project ID	NEW22P-0213
Received Date	Dec 06, 2022
Date Reported	Dec 16, 2022

#### Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.
Bonded asbestos- containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004. NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01%" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.



# **Environment Testing**

Project Name	VOLTRAINT KURRI KURRI
Project ID	NEW22P-0213
Date Sampled	Dec 01, 2022 to Dec 05, 2022
Report	947926-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH02_0.1-0.2	22-De0014062	Dec 01, 2022	Approximate Sample 121g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH04_0.15-0.25	22-De0014063	Dec 01, 2022	Approximate Sample 112g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH05_0.15-0.25	22-De0014064	Dec 01, 2022	Approximate Sample 95g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH06_0.2-0.3	22-De0014065	Dec 01, 2022	Approximate Sample 69g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH07_0.1-0.2	22-De0014066	Dec 05, 2022	Approximate Sample 117g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH08_0.1-0.2	22-De0014068	Dec 05, 2022	Approximate Sample 80g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH09_0.1-0.2	22-De0014069	Dec 05, 2022	Approximate Sample 304g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH10_0.1-0.2	22-De0014070	Dec 05, 2022	Approximate Sample 297g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.



## **Environment Testing**

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH10_0.4-0.5	22-De0014071	Dec 05, 2022	Approximate Sample 412g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH10_0.4-0.5 ACM	22-De0014072	Dec 05, 2022	Approximate Sample 15g / 60x50x5mm Sample consisted of: Weathered white fibre cement material	Chrysotile asbestos detected.
BH11_0.3-0.4	22-De0014073	Dec 05, 2022	Approximate Sample 224g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH12_0.5-0.6	22-De0014074	Dec 05, 2022	Approximate Sample 229g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH13_0.1-0.2	22-De0014075	Dec 05, 2022	Approximate Sample 226g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH14_0.1-0.2	22-De0014076	Dec 05, 2022	Approximate Sample 255g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH15_0.5-0.6	22-De0014077	Dec 05, 2022	Approximate Sample 142g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH16_0.3-0.4	22-De0014078	Dec 05, 2022	Approximate Sample 169g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH03_0.25-0.35	22-De0014110	Dec 05, 2022	Approximate Sample 111g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.


#### **Sample History**

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

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

#### Description

Asbestos - LTM-ASB-8020 Asbestos - LTM-ASB-8020

Testing Site	Extracted	Holding Time
Sydney	Dec 07, 2022	Indefinite
Sydney	Dec 07, 2022	Indefinite

	0.000	fine	Eurofins Env ABN: 50 005 08	ironment 7 5 521	Testing Australia P	ty Ltd												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	ent Testing NZ Ltd	
web: w email:	ww.eurofins.com.au	s.com	Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 NATA# 1261 Sit	Ge d 19 th Gr Vit 5000 Te e# 1254 NA	eelong //8 Lewalan Street rovedale C 3216 al: +61 3 8564 5000 ATA# 1261 Site# 1254	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	war Ro 5 9900 8 261 Site	ad 3400 # 1821	Canb Unit 1 Mitche ACT 2 Tel: +	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809 <sup>.</sup>	B 1/ Q 1 T N	risbane 21 Sma lurarrie LD 417 el: +61 ATA# 1	e allwood 72 7 3902 - 261 Site	Place 4600 e# 2079	Newc 4/52 I Mayfiu PO Bo Tel: + 94 NATA	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 -61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	AucklandChristchurch35 O'Rorke Road43 Detroit DrivePenrose,Rolleston,Auckland 1061Christchurch 767.Tel: +64 9 526 45 51Tel: 0800 856 451IANZ# 1327IANZ# 1290		
Co Ad	ompany Name: Idress:	Qualtest 2 Murray Dv Mayfield We NSW 2304	wyer Circuit est					O Ro Pi Fa	rder N eport none: ax:	lo.: #:	9 ( (	)4792 )2 496 )2 496	6 58 446 50 977	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M	
Pro Pro	oject Name: oject ID:	VOLTRAIN NEW22P-02	T KURRI KUF 213	RRI													Eu	rofins Analytical Ser	vices Manager : Ar	ndrew Black	
		Sá	ample Detail				Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)					
Melt	oourne Laborato	ory - NATA # 12	261 Site # 12	54								х		Х		Х	]				
Syd	ney Laboratory	- NATA # 1261	Site # 18217	7			Х	х	х	х	х	Х	X		х						
Exte	ernal Laboratory	1	1																		
No	Sample ID	Sample Date	Sampling Time	Matr	rix LAB	ID											-				
1	BH01_0.1-0.2	Dec 01, 2022		Soil	N22-De00	14061							X		X		1				
2	BH02_0.1-0.2 BH04_0_15-	Dec 01, 2022		Soil Soil	N22-De00	14062 14063	X			X			X		X		_				
Ŭ	0.25	-					Х						X		X		-				
4	BH05_0.15- 0.25	Dec 01, 2022		Soil	N22-De00	14064	Х						х		Х						
5	BH06_0.2-0.3	Dec 01, 2022		Soil	N22-De00	14065	Х			х			Х		Х						
6	BH07_0.1-0.2	Dec 05, 2022		Soil	N22-De00	14066	Х						х		х						
7	D.5.12.22	Dec 05, 2022		Soil	N22-De00	14067							X		Х						
8	BH08_0.1-0.2	Dec 05, 2022		Soil	N22-De00	14068	Х						Х		Х						
9	BH09_0.1-0.2	Dec 05, 2022		Soil	N22-De00	14069	Х						Х		Х						
10	BH10_0.1-0.2	Dec 05, 2022		Soil	N22-De00	14070	Х														
11	BH10_0.4-0.5	Dec 05, 2022		Soil	N22-De00	14071	Х			Х			Х		Х						

	ouro	Fine	Eurofins Environ	ment Testing Australia	Pty Ltd												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	ent Testing NZ Ltd
web: w email: E	ww.eurofins.com.au	com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1	Geelong 19/8 Lewalan Street Grovedale VIC 3216 0 Tel: +61 3 8564 5000 254 NATA# 1261 Site# 1254	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 NATA# 12	owar Ro n I5 2 9900 8 261 Site	oad 8400 ≽# 1821	Canb Unit 1 Mitch ACT : Tel: +	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809	et 1, N G 1 T N	risbane /21 Sma lurarrie LD 417 el: +61 ATA# 1	e allwood 72 7 3902 261 Site	Place 4600 e# 2079	Newc 4/52 I Mayfie PO Bo Tel: + 94 NATA	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
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		S	ample Detail			Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Melb	ourne Laborato	ry - NATA # 1	261 Site # 1254								х		х		x	-			
Sydr	ney Laboratory -	• NATA # 1261	Site # 18217			X	X	X	X	X	X	X		X		-			
12	BH10_0.4-0.5 ACM	Dec 05, 2022	Bu	ilding N22-De0 aterials	014072		X												
13	BH11_0.3-0.4	Dec 05, 2022	So	il N22-De0	014073	х						Х		Х		]			
14	BH12_0.5-0.6	Dec 05, 2022	So	il N22-De0	014074	х						х		х					
15	BH13_0.1-0.2	Dec 05, 2022	So	il N22-De0	014075	Х						X		Х		-			
16	BH14_0.1-0.2	Dec 05, 2022	So	il N22-De0	014076	Х			Х			X		Х		-			
17	BH15_0.5-0.6	Dec 05, 2022	So	il N22-De0	014077	Х						X		Х		-			
18	BH16_0.3-0.4	Dec 05, 2022	So	il N22-De0	014078	Х						X		Х		-			
19	SA BH07_0.1- 0.2	Dec 05, 2022	So	il N22-De0	014079						х	x	х		x				
20	SA BH07_0.5- 0.6	Dec 05, 2022	So	il N22-De0	014080						x	x	x		x				
21	SA BH07_1.0- 1.1	Dec 05, 2022	So	il N22-De0	014081						x	х	x		x				
22	BH01_0.25- 0.35	Dec 01, 2022	So	il N22-De0	014082			х											

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web: www. email: Envi	eurofins.com.au	.com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 NATA# 13	owar Ro 5 2 9900 8 261 Site	oad 8400 e# 1821	Canb Unit 1 Mitch ACT 2 Tel: +	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809 <sup>.</sup>	t 1, N Q 1 T N	risban (21 Sma lurarrie LD 41 el: +61 ATA# 1	e allwood 72 7 3902 261 Site	Place 4600 e# 2079	Newc 4/52 I Mayfiu PO Bo Tel: +	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
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		s	ample Detail			Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Melbou	Irne Laborato	ory - NATA # 1	261 Site # 1254								Х		Х		х	]			
Sydney	/ Laboratory	- NATA # 1261	Site # 18217			X	X	Х	X	X	Х	X		Х		-			
23 BI	H02_0.2-0.3	Dec 01, 2022	Soil	N22-De0	014083			X								-			
24 BI 25 BI	H03_0.1-0.2 H04_0.55- 65	Dec 01, 2022 Dec 01, 2022	Soil Soil	N22-De0 N22-De0	014084 014085			x x								-			
26 BI	H05 0.3-0.4	Dec 01, 2022	Soil	N22-De0	014086			Х								1			
27 BI	 H06_0.3-0.4	Dec 01, 2022	Soil	N22-De0	014087			Х								1			
28 BI	 H07_0.3-0.4	Dec 05, 2022	Soil	N22-De0	014088			Х											
29 BI	H08_0.5-0.6	Dec 05, 2022	Soil	N22-De0	014089			Х								1			
30 BI	H09_0.4-0.5	Dec 05, 2022	Soil	N22-De0	014090			Х											
31 BI	H11_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014091			Х											
32 BI	H11_0.8-0.9	Dec 05, 2022	Soil	N22-De0	014092			Х											
33 BI	H12_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014093			Х											
34 BI	H12_1.0-1.1	Dec 05, 2022	Soil	N22-De0	014094			Х											
35 BI	H13_0.3-0.4	Dec 05, 2022	Soil	N22-De0	014095			Х											
36 BI	H14_0.5-0.6	Dec 05, 2022	Soil	N22-De0	014096			Х								]			

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web: w email:	ww.eurofins.com.au EnviroSales@eurofins	.com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 NATA# 1	owar Ro n I5 2 9900 8 261 Site	oad 8400 ∋# 1821	Canb Unit 1 Mitch ACT 2 Tel: + 7	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809	t 1, N Q 1 T	risbane 21 Sma lurarrie LD 417 el: +61 ATA# 1	e allwood 72 7 3902 261 Sit	Place 4600 e# 2079	Newc 4/52 I Mayfie PO Bo Tel: + 94 NATA	castle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 -61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ac	ompany Name: Idress:	Qualtest 2 Murray D Mayfield W NSW 2304	wyer Circuit est				O Re Pi Fa	rder N eport hone: ax:	lo.: #:	( (	)4792 )2 496 )2 496	6 68 440 60 977	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Pr Pr	oject Name: oject ID:	VOLTRAIN NEW22P-0	T KURRI KURRI 213													Eu	rofins Analytical Ser	vices Manager : Ar	ndrew Black
		s	ample Detail			Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Mell	bourne Laborato	ory - NATA # 1	261 Site # 1254								Х		х		х				
Syd	ney Laboratory	- NATA # 1261	Site # 18217			Х	Х	Х	х	х	Х	X		х					
37	BH14_0.6-0.7	Dec 05, 2022	Soil	N22-De0	014097			Х											
38	BH15_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014098			Х								1			
39	BH15_1.1-1.2	Dec 05, 2022	Soil	N22-De0	014099			X								4			
40	BH15_1.5-1.6	Dec 05, 2022	Soil	N22-De0	014100			Х								-			
41	BH16_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014101			Х								-			
42	BH16_1.0-1.1	Dec 05, 2022	Soil	N22-De0	014102			Х								-			
43	SA BH09_0.1- 0.2	Dec 05, 2022	Soil	N22-De0	014103			х								-			
44	SA BH09_0.5- 0.6	Dec 05, 2022	Soil	N22-De0	014104			х								4			
45	SA BH09_0.85-0.9	Dec 05, 2022	Soil	N22-De0	014105			х								4			
46	SA BH14_0.1- 0.2	Dec 05, 2022	Soil	N22-De0	014106			х								4			
47	SA BH14_0.5- 0.6	Dec 05, 2022	Soil	N22-De0	014107			х											

	0.000	<b>f</b> :	Eurofins Environm	ent Testing Australia P	ty Ltd												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	nent Testing NZ Ltd
web: w email:	ww.eurofins.com.au	.com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 125	Geelong           19/8 Lewalan Street           Grovedale           VIC 3216           Tel: +61 3 8564 5000           /4           NATA# 1261 Site# 1254	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	owar Ro n 5 2 9900 8 261 Site	oad 8400 e# 1821	Canb Unit 1 Mitch ACT 2 Tel: +	erra ,2 Dacr ell 2911 61 2 61	re Stree 13 809	t 1, N Q 1 T	risbane 21 Sma lurarrie LD 417 el: +61 ATA# 1	2 7 3902 4 261 Site	Place 4600 e# 2079	Newc 4/52 I Mayfie PO Be Tel: + 94 NATA	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 .61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ad	ompany Name: Idress:	Qualtest 2 Murray D Mayfield W NSW 2304	wyer Circuit est				O Re Pl Fa	rder N eport hone: ax:	lo.: #:	9 ( (	94792 )2 496 )2 496	6 58 446 50 977	)8 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	PM
Pro Pro	oject Name: oject ID:	VOLTRAIN NEW22P-0	T KURRI KURRI 213													Eu	rofins Analytical Serv	vices Manager : Aı	ndrew Black
		s	ample Detail			Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Mell	oourne Laborato	ory - NATA # 1	261 Site # 1254								х		х		Х				
Syd	ney Laboratory	- NATA # 1261	Site # 18217			X	X	Х	X	X	Х	X		Х		4			
48	SA BH14_1.0- 1.1	Dec 05, 2022	Soil	N22-De00	14108			х								-			
49	BH03_0.2-0.25	Dec 05, 2022	Soil	N22-De00	14109			Х								-			
50	BH03_0.25- 0.35	Dec 05, 2022	Soil	N22-De00	14110	х				х		х		х					
51	BH03_0.4-0.5	Dec 05, 2022	Soil	N22-De00	14111			Х								-			
52	SA BH09_0.8- 0.9	Dec 05, 2022	Soil	N22-De00	14362			х											
53	BH013_0.8-0.9	Dec 05, 2022	Soil	N22-De00	14363			Х											
54	SA BH07_0.8- 0.9	Dec 05, 2022	Soil	N22-De00	14364			х											
55	D.1.12.22	Dec 05, 2022	Soil	N22-De00	14365			Х								]			
56	BH03_0.7-0.8	Dec 05, 2022	Soil	N22-De00	14378			Х											
57	BH08-	Dec 05, 2022	Soil	N22-De00	14382			Х											
Test	t Counts					16	1	35	4	1	3	20	3	17	3				



#### Internal Quality Control Review and Glossary General

- 1. 2.
- 3
- 4. 5. 6.
- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation. This report replaces any interim results previously issued.

#### **Holding Times**

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001). If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the

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

Units % w/w: F/fid F/mL g, kg g/kg L, mL L/min min	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) Airborne fibre filter loading as Fibres (N) per Fields counted (n) Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m) Concentration in grams per kilogram Volume, e.g. of air as measured in AFM (V = r x t) Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period
Calculations	
Airborne Fibre Concentration:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{r}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{v}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\%_{WA} = \sum \frac{(m \times P_A)_X}{x}$
Terms %asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 ( <b>P</b> <sub>A</sub> ).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021).
HSG264	UK HSE HSG264, Asbestos: The Survey Guide (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, <i>Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres</i> , 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wA).



#### Comments

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

#### Asbestos Counter/Identifier:

Bennel Jiri

Senior Analyst-Asbestos

#### Authorised by:

Chamath JHM Annakkage

Senior Analyst-Asbestos

light-

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Qualtest 2 Murray Dwyer Circuit Mayfield West NSW 2304

Attention:

Emma Coleman

Report Project name Project ID Received Date 947926-S VOLTRAINT KURRI KURRI NEW22P-0213 Dec 06, 2022

Client Sample ID			BH01_0.1-0.2	BH02_0.1-0.2	BH04_0.15- 0.25	BH05_0.15- 0.25
Sample Matrix			Soil	Soil	Soil	Soil
			N22-	N22-	N22-	N22-
Eurofins Sample No.			De0014061	De0014062	De0014063	De0014064
Date Sampled			Dec 01, 2022	Dec 01, 2022	Dec 01, 2022	Dec 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	118	111	108	111
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
Naphthalene <sup>N02</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup>	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) <sup>N04</sup>	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



NATA Accredited Accreditation Number 1261 Site Number 18217

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



Client Sample ID			<b>BH01 0 1-0 2</b>	BH02 0 1-0 2	BH04_0.15-	BH05_0.15-
Sample Matrix			Soil	Soil	Soil	Soil
			N22-	N22-	N22-	N22-
Eurofins Sample No.			De0014061	De0014062	De0014063	De0014064
Date Sampled			Dec 01, 2022	Dec 01, 2022	Dec 01, 2022	Dec 01, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons		-				
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	123	85	69	85
p-Terphenyl-d14 (surr.)	1	%	133	95	80	121
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions	1				
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	10	< 5	7.2
Copper	5	mg/kg	< 5	7.7	15	5.3
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	11	13	8.4
Zinc	5	mg/kg	< 5	27	13	10
		1				
% Moisture	1	%	9.2	22	15	24
Organochlorine Pesticides		1				
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
Endosultan sulphate	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
Endrin aldenyde	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
g-HCH (LINGANE)	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
Methowychlor	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
Addrin and Dialdrin (Tatal)*	0.5	mg/kg	-	< 0.5	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
VIC EPA IWRG 021 UCP (10(al)	0.1	_ шу/кд		< 0.1	-	-



Client Sample ID			BH01_0.1-0.2	BH02_0.1-0.2	BH04_0.15- 0.25	BH05_0.15- 0.25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N22- De0014061	N22- De0014062	N22- De0014063	N22- De0014064
Date Sampled			Dec 01, 2022	Dec 01, 2022	Dec 01, 2022	Dec 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	120	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	-

Client Sample ID			BH06_0.2-0.3	BH07_0.1-0.2	D.5.12.22	BH08_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N22- De0014065	N22- De0014066	N22- De0014067	N22- De0014068
Date Sampled			Dec 01, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
втех						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	111	124	116	131
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
Naphthalene <sup>N02</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup>	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) <sup>N04</sup>	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



Sample Matrix         Soil         Soil         Soil         Soil         Soil         Soil         N22- De0014065         N22- De0014066         Dec 05, 2022         Dec 05, 2025         Dec 05, 205         Dec 05, 20, 5         Dec 05, 20, 5         Dec 05	·0.2
Eurofins Sample No.         N22- De0014065         N22- De0014066         N22- De0014066         N22- De0014067         N22- De0014068         N22- De0014067         N22- De0014068         N22- De0014068         N22- De0014067         N22- De0014068         Dec 05, 2022         Dec 05, 202         Dec 05, 203         Dec 05, 20.5	
Eurofins Sample No.         De0014065         De0014066         De0014067         De0014068           Date Sampled         Dec 01, 2022         Dec 05, 2023         Dec 05, 203         Dec 05, 203         Dec 05, 203         Dec 05, 203         Dec	_
Date Sampled         Dec 01, 2022         Dec 05, 205         Dec 05, 205         Dec 05, 205         Dec 05, 20, 5         Dec 05, 20,	8
Test/Reference         LOR         Unit         Image: Constraint of the system of the syste	22
Polycyclic Aromatic Hydrocarbons         0.5         mg/kg         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         <	
Phenanthrene         0.5         mg/kg         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5	
Pyrene         0.5         mg/kg         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5	
Total PAH*         0.5         mg/kg         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5	
2-Fluorobiphenyl (surr.)         1         %         90         102         98         96           p-Terphenyl-d14 (surr.)         1         %         113         118         65         116           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         T         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7 <th7< th="">         7         <th7< th=""> <t< td=""><td></td></t<></th7<></th7<>	
p-Terphenyl-d14 (surr.)         1         %         113         118         65         116           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Image: Constraint of the second seco	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions         mg/kg         < 50         mg/kg         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50         < 50	
TRH >C10-C16         50         mg/kg         < 50         < 50         < 50         < 50           TRH >C16-C34         100         mg/kg         < 100	
TRH >C16-C34         100         mg/kg         < 100         < 100         < 100         < 100	
	)
TRH >C34-C40         100         mg/kg         < 100         < 100         < 100         < 100	)
TRH >C10-C40 (total)*         100         mg/kg         < 100         < 100         < 100         < 100	)
Heavy Metals	
Arsenic 2 mg/kg < 2 7.2 7.1 7.0	
Cadmium         0.4         mg/kg         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4         < 0.4 <th< td=""><td></td></th<>	
Chromium         5         mg/kg         15         7.8         5.8         6.1	
Copper         5         mg/kg         7.3         12         11         11	
Lead 5 mg/kg < 5 5.1 5.2 5.5	
Mercury 0.1 mg/kg < 0.1 < 0.1 < 0.1 < 0.1	
Nickel 5 mg/kg 17 11 11 12	
Zinc 5 mg/kg 19 45 45 42	
% Moisture         1         %         22         5.1         4.7         3.9	
Organochlorine Pesticides	
Chlordanes - Total         0.1         mg/kg         < 0.1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
4.4'-DDD 0.05 mg/kg < 0.05	
4.4'-DDE 0.05 mg/kg < 0.05	
4.4-DD1 0.05 mg/kg < 0.05	
a-HCH 0.05 mg/kg < 0.05	
Aldrin 0.05 mg/kg < 0.05	
0-HCH 0.05 mg/kg < 0.05	
d-HCH         0.05         mg/kg         < 0.05         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
Dieldrin         0.05         mg/kg         < 0.05         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
Endosulfan II. 0.05 mg/kg < 0.05	
Endosulfan sulphato 0.05 mg/kg < 0.05	
Endrin 0.05 mg/kg < 0.05	
Endrin aldebyde $0.05$ mg/kg $< 0.05$	
Endrin addrigde 0.00 mg/kg < 0.00	
a-HCH (Lindane)	
Heptachlor 0.05 mg/kg < 0.05	
Heptachlor epoxide 0.05 mg/kg < 0.05	
Hexachlorobenzene 0.05 mg/kg < 0.05	
Methoxychlor 0.05 ma/ka < 0.05	
Toxaphene         0.5         mg/kg         < 0.5         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
Aldrin and Dieldrin (Total)*         0.05         mg/kg         < 0.05	
DDT + DDE + DDD (Total)* 0.05 ma/kg < 0.05	
Vic EPA IWRG 621 OCP (Total)*         0.1         mg/kg         < 0.1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	
Vic EPA IWRG 621 Other OCP (Total)*         0.1         mg/kg         < 0.1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </td <td></td>	
Dibutylchlorendate (surr.) 1 % 101	
Tetrachloro-m-xylene (surr.)         1         %         90         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <th< td=""><td></td></th<>	



Client Sample ID			BH09_0.1-0.2	BH10_0.4-0.5	BH11_0.3-0.4	BH12_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
			N22-	N22-	N22-	N22-
Eurofins Sample No.			De0014069	De0014071	De0014073	De0014074
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	120	105	96	125
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
Naphthalene <sup>N02</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup>	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) <sup>N04</sup>	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	85	122	101
p-Terphenyl-d14 (surr.)	1	%	84	99	110	108
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100



Client Sample ID			BH09 0.1-0.2	BH10 0.4-0.5	BH11 0.3-0.4	BH12 0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N22- De0014069	N22- De0014071	N22- De0014073	N22- De0014074
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Heavy Metals		U.I.I				
Arsenic	2	ma/ka	62	8.4	8.0	6.7
Cadmium	0.4	mg/kg	< 0.4	- 0.4	- 0.4	- 0.4
Chromium	5	mg/kg	52	22	20	85
Copper	5	mg/kg	10	23	6.4	8.7
Lead	5	mg/kg	< 5	210	55	13
Mercury	01	mg/kg	< 0.1	2.0	0.7	< 0.1
Nickel	5	mg/kg	99	12	< 5	79
Zinc	5	mg/kg	40	220	160	44
	0	iiig/itg		220	100	
% Moisture	1	%	4.6	11	9.6	84
Organochlorine Pesticides	I	70	4.0		5.0	0.4
Chlordanos Total	0.1	ma/ka		< 0.1		
	0.1	mg/kg	-	< 0.1	-	-
4.4-DDD	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
Dialdrin	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg	-	< 0.05	-	-
	0.05	mg/kg		< 0.05		_
Endrin	0.05	mg/kg	_	< 0.05		_
	0.05	mg/kg	_	< 0.05	_	_
Endrin ketone	0.05	mg/kg	_	< 0.05	_	_
a-HCH (Lindane)	0.05	mg/kg	_	< 0.05	_	_
Hentachlor	0.05	mg/kg	_	< 0.05	_	_
Heptachlor epoxide	0.05	ma/ka	_	< 0.05	_	_
Hexachlorobenzene	0.05	ma/ka	_	< 0.05	_	_
Methoxychlor	0.05	ma/ka	_	< 0.05	_	_
Toxaphene	0.5	ma/ka	_	< 0.5	_	-
Aldrin and Dieldrin (Total)*	0.05	ma/ka	-	< 0.05	_	_
DDT + DDE + DDD (Total)*	0.05	ma/ka	-	< 0.05	-	_
Vic EPA IWRG 621 OCP (Total)*	0.1	ma/ka	-	< 0.1	-	_
Vic EPA IWRG 621 Other OCP (Total)*	0.1	ma/ka	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	103	_	-
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	-



Client Sample ID			BH13 0.1-0.2	BH14 0.1-0.2	BH15 0.5-0.6	BH16 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
			N22-	N22-	N22-	N22-
Eurofins Sample No.			De0014075	De0014076	De0014077	De0014078
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions	•				
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	63	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	60	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	123	< 50
втех						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	117	105	83	102
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
Naphthalene <sup>N02</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup>	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) <sup>N04</sup>	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
2-Fluorobiphenyl (surr.)	1	%	88	115	104	88
p-Terphenyl-d14 (surr.)	1	%	120	110	87	87
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	110	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	110	< 100



Client Sample ID			BH13 0.1-0.2	BH14 0.1-0.2	BH15 0.5-0.6	BH16 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N22- De0014075	N22- De0014076	N22- De0014077	N22- De0014078
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	ma/ka	6.5	5.6	12	11
Cadmium	0.4	ma/ka	< 0.4	< 0.4	0.7	0.5
Chromium	5	mg/kg	5.3	< 5	23	26
Copper	5	mg/kg	10	8.6	44	33
Lead	5	mg/kg	< 5	< 5	300	320
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	0.3
Nickel	5	mg/kg	11	8.7	38	23
Zinc	5	mg/kg	42	35	440	450
% Moisture	1	%	5.7	3.9	15	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	131	-	-



Client Sample ID			SA BH07_0.1-	SA BH07_0.5-	SA BH07_1.0-	BH03_0.25-
Sample Matrix			Soil	Soil	Soil	Soil
			N22-	N22-	N22-	N22-
Eurofins Sample No.			De0014079	De0014080	De0014081	De0014110
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	60
TRH C29-C36	50	mg/kg	-	-	-	160
TRH C10-C36 (Total)	50	mg/kg	-	-	-	220
BTEX						
Benzene	0.1	ma/ka	-	-	-	< 0.1
Toluene	0.1	ma/ka	-	-	-	< 0.1
Ethylbenzene	0.1	ma/ka	-	-	-	< 0.1
m&p-Xylenes	0.2	ma/ka	-	-	-	< 0.2
o-Xylene	0.1	ma/ka	_	-	-	< 0.1
Xylenes - Total*	0.3	ma/ka	_	_	-	< 0.3
4-Bromofluorobenzene (surr.)	1	<u>%</u>	_	_	-	113
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions	70				110
Naphthalana <sup>N02</sup>	0.5	ma/ka				< 0.5
TPH $\sim$ C10 C16 loss Naphthalana (E2) <sup>N01</sup>	50	mg/kg	-	-	-	< 5.0
	20	mg/kg	-	-	-	< 30
	20	mg/kg	-	-	-	< 20
Relicevelia Aremetia Hudroserbana	20	тід/кд	-	-	-	< 20
	0.5					.0.5
Benzo(a)pyrene TEQ (lower bound)	0.5	mg/kg	-	-	-	< 0.5
	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound)	0.5	mg/kg	-	-	-	1.2
Acenaphthelese	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
	0.5	mg/кg	-	-	-	< 0.5
	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	104
p-Terphenyl-d14 (surr.)	1	%	-	-	-	89
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	180
TRH >C34-C40	100	mg/kg	-	-	-	170
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	350



Client Sample ID			SA BH07_0.1-	SA BH07_0.5-	SA BH07_1.0-	BH03_0.25- 0.35
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N22- De0014079	N22- De0014080	N22- De0014081	N22- De0014110
Date Sampled			Dec 05, 2022	Dec 05, 2022	Dec 05, 2022	Dec 05, 2022
Test/Reference	LOR	Unit	, i			
Heavy Metals	2011	Onic				
Arsenic	2	ma/ka	_	_	_	82
Cadmium	04	ma/ka	_	_	_	< 0.4
Chromium	5	mg/kg		_	_	9.8
Copper	5	mg/kg	_	_	_	17
Lead	5	ma/ka	_	_	_	80
Mercury	01	ma/ka	_	_	_	< 0.0
Nickel	5	ma/ka	_	-	_	24
Zinc	5	ma/ka	_	-	_	67
	0	ing/kg				01
% Moisture	1	%	11	5.2	18	9.0
Chloride	10	mg/kg	23	52	42	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	98	160	130	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	7.8	5.4	6.7	-
Resistivity*	0.5	ohm.m	200	81	120	-
Sulphate (as SO4)	10	mg/kg	13	140	97	-
Exchangeable Sodium Percentage (ESP)	0.1	%	9.2	7.8	8.6	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	8.1	9.4	11	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Nitrophenol	1	mg/kg	-	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 1
Total cresols*	0.5	mg/kg	-	-	-	< 1
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-		-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	111
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20



#### Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Dec 11, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Dec 10, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Chloride	Sydney	Dec 11, 2022	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Dec 11, 2022	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Dec 11, 2022	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Dec 14, 2022	7 Days
- Method: LTM-INO-4030 Conductivity			
Exchangeable Sodium Percentage (ESP)	Melbourne	Dec 14, 2022	28 Days
- Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)			
Organochlorine Pesticides	Sydney	Dec 11, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Cation Exchange Capacity	Melbourne	Dec 14, 2022	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Phenols (Halogenated)	Sydney	Dec 10, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Dec 10, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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web: w email:	ww.eurofins.com.au	CINS.	Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 NATA# 1261 Sit	d	Geelong         Sydney           19/8 Lewalan Street         179 Mago           Grovedale         Girraween           VIC 3216         NSW 214           Tel: +61 3 8564 5000         Tel: +61 2           VATA# 1261 Site# 1254         NATA# 12			oad 3400 9# 1821	Canb Unit 1 Mitch ACT 2 Tel: + 7	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809	B 1/ M Q I Te N	risbane 21 Sma urarrie LD 417 el: +61 ATA# 1	allwood 72 7 3902 - 261 Site	Place 4600 e# 2079	Newo 4/52 I Mayfi PO B Tel: + 94 NATA	castle Industrial Drive ield East NSW 2304 iox 60 Wickham 2293 i-61 2 4968 8448 A# 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ad	ompany Name: Idress:	Qualtest 2 Murray Dv Mayfield We NSW 2304	vyer Circuit st					Oi Re Pi Fa	rder N eport hone: ax:	lo.: #:	9 ( (	)4792 )2 496 )2 496	6 58 446 50 977	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Pro Pro	oject Name: oject ID:	VOLTRAINT NEW22P-02	KURRI KUF 213	RRI													Eu	urofins Analytical Ser	vices Manager : Ar	ndrew Black
Sample Detail								Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Melt	oourne Laborato	ory - NATA # 12	261 Site # 12	54								х		Х		Х	]			
Syd	ney Laboratory	- NATA # 1261	Site # 18217	7			х	х	Х	х	Х	х	х		Х					
Exte	ernal Laboratory			_																
No	Sample ID	Sample Date	Sampling Time	Ма	atrix LA	BID											-			
1	BH01_0.1-0.2	Dec 01, 2022		Soil	N22-De	0014061							X		Х		_			
2	BH02_0.1-0.2	Dec 01, 2022		Soil	N22-De	0014062	Х			X			X		Х		_			
3	BH04_0.15- 0.25	Dec 01, 2022		Soil	N22-De	0014063	Х						х		х		_			
4	BH05_0.15- 0.25	Dec 01, 2022		Soil	N22-De	0014064	Х						х		х		_			
5	BH06_0.2-0.3	Dec 01, 2022		Soil	N22-De	0014065	Х			X			X		Х		_			
6	BH07_0.1-0.2	Dec 05, 2022		Soil	N22-De	0014066	Х						X		X		4			
7	D.5.12.22	Dec 05, 2022		Soil	N22-De	0014067							X		X		4			
8	BH08_0.1-0.2	Dec 05, 2022		Soil	N22-De	0014068	Х						X		X		4			
9	BH09_0.1-0.2	Dec 05, 2022		Soil	N22-De	0014069	Х						X		X		4			
10	BH10_0.1-0.2	Dec 05, 2022		Soil	N22-De	0014070	Х										4			
11	BH10_0.4-0.5	Dec 05, 2022		Soil	N22-De	0014071	Х			Х			Х		Х					

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web: email	www.eurofins.com.au	com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 125	Geelong           19/8 Lewalan Street           Grovedale           VIC 3216           Tel: +61 3 8564 5000           i4           NATA# 1261 Site# 1254	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 NATA# 13	owar Ro n I5 2 9900 8 261 Site	oad 3400 e# 1821	Canb Unit 1 Mitch ACT 2 Tel: +	erra ,2 Dacr ell 2911 61 2 61	e Stree 13 809	t 1, N Q 1 T	risband 21 Sma lurarrie LD 417 el: +61 ATA# 1	e allwood 72 7 3902 261 Site	Place 4600 e# 2079	Newc 4/52 li Mayfie PO Bo Tel: +I 94 NATA	astle ndustrial Drive eld East NSW 2304 ox 60 Wickham 2293 61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
C A	ompany Name: ddress:	Qualtest 2 Murray Dv Mayfield We NSW 2304	vyer Circuit est				Oi Re Pi Fa	rder N eport hone: ax:	lo.: #:	( ( (	94792 )2 496 )2 496	6 58 440 50 973	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Pi Pi	roject Name: roject ID:	VOLTRAIN NEW22P-02	F KURRI KURRI 213													Eu	rofins Analytical Ser	vices Manager : Ar	ndrew Black
Sample Detail							Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Mel	bourne Laborato	ry - NATA # 12	261 Site # 1254								х		Х		x				
Syc	Iney Laboratory -	NATA # 1261	Site # 18217			X	X	Х	Х	Х	X	X		X					
12	ACM	Dec 05, 2022	Mate	erials	014072		X												
13	BH11_0.3-0.4	Dec 05, 2022	Soil	N22-De0	014073	Х						Х		Х					
14	BH12_0.5-0.6	Dec 05, 2022	Soil	N22-De0	014074	Х						х		Х					
15	BH13_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014075	Х						X		Х					
16	BH14_0.1-0.2	Dec 05, 2022	Soil	N22-De0	014076	Х			X			X		X					
17	BH15_0.5-0.6	Dec 05, 2022	Soil	N22-De0	014077	Х						X		Х					
18	BH16_0.3-0.4	Dec 05, 2022	Soil	N22-De0	014078	X						X		X					
19	SA BH07_0.1- 0.2	Dec 05, 2022	Soil	N22-De0	014079						Х	x	х		x				
20	SA BH07_0.5- 0.6	Dec 05, 2022	Soil	N22-De0	014080						х	x	х		x				
21	SA BH07_1.0- 1.1	Dec 05, 2022	Soil	N22-De0	014081						х	x	x		x				
22	BH01_0.25- 0.35	Dec 01, 2022	Soil	N22-De0	014082			Х											

		<b>f</b> :	Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	ent Testing NZ Ltd	
web: w email:	ww.eurofins.com.au	s.com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	owar Ro 5 2 9900 8 261 Site	oad 8400 e# 1821	Canb Unit 1 Mitch ACT : Tel: +	erra I,2 Dacr ell 2911 61 2 61	e Stree 13 809	t 1/ M Q 1 To N	risbane 21 Sma lurarrie LD 417 el: +61 ATA# 1	e allwood 72 7 3902 261 Site	Place 4600 e# 2079	Newo 4/52 I Mayfi PO B Tel: + 74 NATA	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ad	mpany Name: dress:	Qualtest 2 Murray D Mayfield W NSW 2304	wyer Circuit est				O Re Pl Fa	rder N eport hone: ax:	lo.: #:	( (	94792 )2 496 )2 496	6 58 446 50 977	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Pro Pro	oject Name: oject ID:	VOLTRAIN NEW22P-0	T KURRI KURRI 213													Eu	rofins Analytical Serv	vices Manager : Ar	ndrew Black
Sample Detail							Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Melb	ourne Laborato	ory - NATA # 1	261 Site # 1254								х		Х		Х	]			
Sydi	ney Laboratory	- NATA # 1261	Site # 18217			Х	X	х	Х	Х	Х	X		Х					
23	BH02_0.2-0.3	Dec 01, 2022	Soil	N22-De00	014083			Х											
24	BH03_0.1-0.2	Dec 01, 2022	Soil	N22-De00	014084			Х								_			
25	BH04_0.55- 0.65	Dec 01, 2022	Soil	N22-De00	014085			х								-			
26	BH05_0.3-0.4	Dec 01, 2022	Soil	N22-De00	014086			Х								-			
27	BH06_0.3-0.4	Dec 01, 2022	Soil	N22-De00	014087			Х								-			
28	BH07_0.3-0.4	Dec 05, 2022	Soil	N22-De00	014088			Х								-			
29	BH08_0.5-0.6	Dec 05, 2022	Soil	N22-De00	014089			Х								-			
30	BH09_0.4-0.5	Dec 05, 2022	Soil	N22-De00	014090			Х								-			
31	BH11_0.1-0.2	Dec 05, 2022	Soil	N22-De00	014091			Х								4			
32	BH11_0.8-0.9	Dec 05, 2022	Soil	N22-De00	)14092			Х								1			
33	BH12_0.1-0.2	Dec 05, 2022	Soil	N22-De00	014093			Х								4			
34	BH12_1.0-1.1	Dec 05, 2022	Soil	N22-De00	)14094			Х								1			
35	BH13_0.3-0.4	Dec 05, 2022	Soil	N22-De00	014095			Х											
36	BH14_0.5-0.6	Dec 05, 2022	Soil	N22-De00	014096			Х								]			

	🕏 eurofins		Eurofins Environme	ent Testing Australia P	ty Ltd	td											Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	ent Testing NZ Ltd
web: w email:	WW.eurofins.com.au	com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	owar Ro 5 2 9900 8 261 Site	oad 8400 ≽# 1821	Canb Unit 1 Mitch ACT : Tel: +	erra I,2 Dacr ell 2911 61 2 61	e Stree 13 809	et 1 N G 1 T N	risban /21 Sm lurarrie LD 41 el: +61 ATA# 1	e allwood 72 7 3902 261 Site	Place 4600 e# 2079	Newc 4/52 I Mayfiu PO Bo Tel: + 94 NATA	astle Industrial Drive eld East NSW 2304 ox 60 Wickham 2293 61 2 4968 8448 # 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ad	ompany Name: Idress:	Qualtest 2 Murray D Mayfield W NSW 2304	wyer Circuit est				O Re Pl Fa	rder N eport hone: ax:	lo.: #:	( ( (	94792 )2 49( )2 49(	6 58 44 50 97	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Pro Pro	oject Name: oject ID:	VOLTRAIN NEW22P-0	T KURRI KURRI 213													Eu	rofins Analytical Serv	vices Manager : Ar	ndrew Black
Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Melk	oourne Laborato	ry - NATA # 1	261 Site # 1254								Х		х		Х	]			
Syd	ney Laboratory -	NATA # 1261	Site # 18217			X	X	Х	Х	X	Х	X		Х		-			
37	BH14_0.6-0.7	Dec 05, 2022	Soil	N22-De00	014097			Х				ļ			ļ	-			
38	BH15_0.1-0.2	Dec 05, 2022	Soil	N22-De00	014098			Х				<u> </u>				4			
39	BH15_1.1-1.2	Dec 05, 2022	Soil	N22-De00	014099			X								4			
40	BH15_1.5-1.6	Dec 05, 2022	Soil	N22-De00	014100			X								-			
41	BH16_0.1-0.2	Dec 05, 2022	Soil	N22-De00	014101			X								-			
42	BH16_1.0-1.1	Dec 05, 2022	Soil	N22-De00	014102			X								-			
43	SA BH09_0.1-	Dec 05, 2022	Soil	N22-De00	014103			Х											
44	SA BH09_0.5- 0.6	Dec 05, 2022	Soil	N22-De00	)14104			х								]			
45	SA BH09_0.85-0.9	Dec 05, 2022	Soil	N22-De00	)14105			х											
46	SA BH14_0.1- 0.2	Dec 05, 2022	Soil	N22-De00	014106			х								-			
47	SA BH14_0.5- 0.6	Dec 05, 2022	Soil	N22-De00	014107			Х											

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521				ty Ltd										Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954				
web: www.eurofins.com.au email: EnviroSales@eurofins.com		.com	Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 125	Geelong         Sydney           19/8 Lewalan Street         179 Mago           Grovedale         Girrawee           VIC 3216         NSW 214           Tel: +61 3 8564 5000         Tel: +61 3           4         NATA# 1261 Site# 1254		ey Iagowar Road veen 2145 -61 2 9900 8400 \# 1261 Site# 1821;		Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7		t 1, M Q 1 T	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794		Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 4 NATA# 1261 Site# 25079		Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290		
Co Ad	ompany Name: Idress:	Qualtest 2 Murray D Mayfield W NSW 2304	wyer Circuit est				O Re Pi Fa	rder N eport hone: ax:	lo.: #:	9 ( (	94792 )2 496 )2 496	6 58 446 50 977	68 75				Received: Due: Priority: Contact Name:	Dec 6, 2022 2:40 F Dec 13, 2022 5 Day Emma Coleman	M
Project Name:VOLTRAINT KURRI KURRIProject ID:NEW22P-0213															Eu	rofins Analytical Serv	vices Manager : Aı	ndrew Black	
		s	ample Detail			Asbestos - AS4964	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Phenols (Speciated)	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Exchangeable Sodium Percentage (ESP)				
Mell	oourne Laborato	ory - NATA # 1	261 Site # 1254								Х		Х		Х				
Syd	ney Laboratory	- NATA # 1261	Site # 18217			X	X	Х	X	X	Х	X		X	ļ	-			
48	SA BH14_1.0- 1.1	Dec 05, 2022	Soil	N22-De00	14108			х								-			
49	BH03_0.2-0.25	Dec 05, 2022	Soil	N22-De00	14109			Х								-			
50	BH03_0.25- 0.35	Dec 05, 2022	Soil	N22-De00	14110	х				х		х		х					
51	BH03_0.4-0.5	Dec 05, 2022	Soil	N22-De00	14111			Х											
52	SA BH09_0.8- 0.9	Dec 05, 2022	Soil	N22-De00	14362			х											
53	BH013_0.8-0.9	Dec 05, 2022	Soil	N22-De00	14363			Х											
54	SA BH07_0.8- 0.9	Dec 05, 2022	Soil	N22-De00	14364			х											
55	D.1.12.22	Dec 05, 2022	Soil	N22-De00	14365			Х											
56	BH03_0.7-0.8	Dec 05, 2022	Soil	N22-De00	14378			Х											
57	BH08-	Dec 05, 2022	Soil	N22-De00	14382			Х											
Test	t Counts					16	1	35	4	1	3	20	3	17	3				



#### Internal Quality Control Review and Glossary

#### General

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

#### **Holding Times**

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

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

#### Units

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

#### Terms

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

#### **QC** - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

#### **QC Data General Comments**

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



#### **Quality Control Results**

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank		-	1	1		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	mg/kg	< 20		20	Pass	
TRH C15-C28	mg/kg	< 50		50	Pass	
TRH C29-C36	mg/kg	< 50		50	Pass	
Method Blank			1 1	1		
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	mg/kg	< 50		50	Pass	
TRH >C16-C34	mg/kg	< 100		100	Pass	
TRH >C34-C40	mg/kg	< 100		100	Pass	
Method Blank		r	1	1		
Heavy Metals						
Arsenic	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.4		0.4	Pass	
Chromium	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Mercury	mg/kg	< 0.1		0.1	Pass	
Nickel	mg/kg	< 5		5	Pass	
Zinc	mg/kg	< 5		5	Pass	
Method Blank	Г		1 1	1		
Chloride	mg/kg	< 10		10	Pass	
Sulphate (as SO4)	mg/kg	< 10		10	Pass	
Method Blank			r	1		
Organochlorine Pesticides						
Chlordanes - Total	mg/kg	< 0.1		0.1	Pass	
4.4'-DDD	mg/kg	< 0.05		0.05	Pass	
4.4'-DDE	mg/kg	< 0.05		0.05	Pass	
4.4'-DDT	mg/kg	< 0.05		0.05	Pass	
a-HCH	mg/kg	< 0.05		0.05	Pass	
Aldrin	mg/kg	< 0.05		0.05	Pass	
b-HCH	mg/kg	< 0.05		0.05	Pass	
d-HCH	mg/kg	< 0.05		0.05	Pass	
Dieldrin	mg/kg	< 0.05		0.05	Pass	



Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	mg/kg	0.05		0.05	Pass	
Endosulfan II	mg/kg	< 0.05		0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05		0.05	Pass	
Endrin	mg/kg	< 0.05		0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05		0.05	Pass	
Endrin ketone	ma/ka	< 0.05		0.05	Pass	
g-HCH (Lindane)	ma/ka	< 0.05		0.05	Pass	
Heptachlor	ma/ka	< 0.05		0.05	Pass	
Heptachlor epoxide	ma/ka	< 0.05		0.05	Pass	
Hexachlorobenzene	ma/ka	< 0.05		0.05	Pass	
Methoxychlor	ma/ka	< 0.05		0.05	Pass	
Toxaphene	ma/ka	< 0.5		0.5	Pass	
Method Blank			1 1			
Phenois (Halogenated)						
2-Chlorophenol	ma/ka	< 0.5		0.5	Pass	
2.4-Dichlorophenol	ma/ka	< 0.5		0.5	Pass	
2.4.5-Trichlorophenol	ma/ka	< 1		1	Pass	
2.4.6-Trichlorophenol	ma/ka	< 1		1	Pass	
2.6-Dichlorophenol	ma/ka	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	ma/ka	< 1		1	Pass	
Pentachlorophenol	ma/ka	< 1		1	Pass	
Tetrachlorophenols - Total	ma/ka	< 10		10	Pass	
Method Blank	iiig/kg			10	1 400	
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Nitrophenol	mg/kg	< 1		1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	
Dinoseb	mg/kg	< 20		20	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	%	85		70-130	Pass	
LCS - % Recovery		-				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	93		70-130	Pass	
Acenaphthylene	%	93		70-130	Pass	
Anthracene	%	90		70-130	Pass	
Benz(a)anthracene	%	91		70-130	Pass	
Benzo(a)pyrene	%	100		70-130	Pass	
Benzo(b&j)fluoranthene	%	99		70-130	Pass	
Benzo(g.h.i)perylene	%	123		70-130	Pass	
Benzo(k)fluoranthene	%	97		70-130	Pass	
Chrysene	%	90		70-130	Pass	
Dibenz(a.h)anthracene	%	106		70-130	Pass	
Fluoranthene	%	87		70-130	Pass	
Fluorene	%	93		70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105		70-130	Pass	
Naphthalene	%	93		70-130	Pass	
Phenanthrene	%	93		70-130	Pass	



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	%	89	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
TRH >C10-C16	%	84	70-130	Pass	
LCS - % Recovery					
Heavy Metals					
Arsenic	%	103	80-120	Pass	
Cadmium	%	99	80-120	Pass	
Chromium	%	109	80-120	Pass	
Copper	%	109	80-120	Pass	
Lead	%	109	80-120	Pass	
Mercury	%	116	80-120	Pass	
Nickel	%	111	80-120	Pass	
Zinc	%	98	80-120	Pass	
LCS - % Recovery				-	
Organochlorine Pesticides					
Chlordanes - Total	%	121	70-130	Pass	
4.4'-DDD	%	129	70-130	Pass	
4.4'-DDE	%	102	70-130	Pass	
a-HCH	%	91	70-130	Pass	
Aldrin	%	122	70-130	Pass	
b-HCH	%	101	70-130	Pass	
d-HCH	%	110	70-130	Pass	
Dieldrin	%	101	70-130	Pass	
Endosulfan I	%	125	70-130	Pass	
Endosulfan II	%	105	70-130	Pass	
Endosulfan sulphate	%	110	70-130	Pass	
Endrin	%	115	70-130	Pass	
Endrin aldehyde	%	115	70-130	Pass	
Endrin ketone	%	121	70-130	Pass	
g-HCH (Lindane)	%	91	70-130	Pass	
Hexachlorobenzene	%	101	70-130	Pass	
LCS - % Recovery					
Phenols (Halogenated)					
2-Chlorophenol	%	88	25-140	Pass	
2.4-Dichlorophenol	%	90	25-140	Pass	
2.4.5-Trichlorophenol	%	79	25-140	Pass	
2.4.6-Trichlorophenol	%	72	25-140	Pass	
2.6-Dichlorophenol	%	87	25-140	Pass	
4-Chloro-3-methylphenol	%	86	25-140	Pass	
Pentachlorophenol	%	77	25-140	Pass	
Tetrachlorophenols - Total	%	77	25-140	Pass	
LCS - % Recovery					
Phenols (non-Halogenated)					
2-Nitrophenol	%	99	25-140	Pass	
2.4-Dimethylphenol	%	86	25-140	Pass	
2-Methylphenol (o-Cresol)	%	86	25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	89	25-140	Pass	
4-Nitrophenol	%	85	25-140	Pass	
Dinoseb	%	75	25-140	Pass	
Phenol	%	93	25-140	Pass	



Spike - % Recovery           Total Recovery           TRH C6-C9         S22-De0026249         NCP         %         85         70-130         Pass           Spike - % Recovery           BTEX         Result 1         Colspan="4">Colspan="4"           Benzene         B22-De0016045         NCP         %         97         70-130         Pass           Toluene         B22-De0016045         NCP         %         97         70-130         Pass           Ethylbenzene         B22-De0016045         NCP         %         121         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         92         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           Xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Imagention and and and and and and and and and an
Total Recoverable Hydrocarbons - 1999 NEPM Fractions         Result 1         Image: Constraint of the system of th
TRH C6-C9         S22-De0026249         NCP         %         85         70-130         Pass           Spike - % Recovery         Result 1         Result 1         Result 1         Result 1         Result 1           Benzene         B22-De0016045         NCP         %         97         70-130         Pass           Toluene         B22-De0016045         NCP         %         97         70-130         Pass           Ethylbenzene         B22-De0016045         NCP         %         92         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           Xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Total         Result 1         Image: Second sec
Spike - % Recovery           BTEX         Result 1         Result 1         Result 1           Benzene         B22-De0016045         NCP         %         97         70-130         Pass           Toluene         B22-De0016045         NCP         %         121         70-130         Pass           Ethylbenzene         B22-De0016045         NCP         %         92         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         91         70-130         Pass           xylenes - Total*         B22-De0016045         NCP         %         83         70-130         Pass           Spike - % Recovery         Without - Witho
BTEX         Result 1         Result 1         Constraint of the second
Benzene         B22-De0016045         NCP         %         97         70-130         Pass           Toluene         B22-De0016045         NCP         %         121         70-130         Pass           Ethylbenzene         B22-De0016045         NCP         %         92         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         91         70-130         Pass           xylenes - Total*         B22-De0016045         NCP         %         83         70-130         Pass           Spike - % Recovery         B22-De0016045         NCP         %         89         70-130         Pass           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1
Toluene         B22-De0016045         NCP         %         121         70-130         Pass           Ethylbenzene         B22-De0016045         NCP         %         92         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1
Ethylbenzene         B22-De0016045         NCP         %         92         70-130         Pass           m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         B22-De0016045         NCP         %         89         70-130         Pass           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1              Naphthalene         S22-De0026249         NCP         %         107         70-130         Pass           TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery          %         83         70-130         Pass           Polycyclic Aromatic Hydrocarbons         Result 1
m&p-Xylenes         B22-De0016045         NCP         %         91         70-130         Pass           o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           Xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Recovery         %         89         70-130         Pass           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1              Naphthalene         S22-De0026249         NCP         %         107         70-130         Pass           TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery         %         83         70-130         Pass            Polycyclic Aromatic Hydrocarbons         Result 1
o-Xylene         B22-De0016045         NCP         %         83         70-130         Pass           Xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         70-130         Pass           Naphthalene         S22-De0026249         NCP         %         107         70-130         Pass           TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery         NCP         %         83         70-130         Pass           Polycyclic Aromatic Hydrocarbons         Result 1
Xylenes - Total*         B22-De0016045         NCP         %         89         70-130         Pass           Spike - % Recovery         Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Image: Control of the system of the
Spike - % Recovery         Result 1         Image: Control of the system
Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Control         Result 1           Naphthalene         S22-De0026249         NCP         %         107         70-130         Pass           TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery         Polycyclic Aromatic Hydrocarbons         Result 1
Naphthalene         S22-De0026249         NCP         %         107         70-130         Pass           TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery         Polycyclic Aromatic Hydrocarbons         Result 1
TRH C6-C10         S22-De0026249         NCP         %         83         70-130         Pass           Spike - % Recovery         Polycyclic Aromatic Hydrocarbons         Result 1
Spike - % Recovery         Polycyclic Aromatic Hydrocarbons         Result 1
Polycyclic Aromatic Hydrocarbons Result 1
Acenaphthene         N22-De0010929         NCP         %         78         70-130         Pass
Acenaphthylene N22-De0010929 NCP % 84 70-130 Pass
Anthracene         N22-De0010929         NCP         %         82         70-130         Pass
Benz(a)anthracene         N22-De0010929         NCP         %         86         70-130         Pass
Benzo(a)pyrene         N22-De0010929         NCP         %         90         70-130         Pass
Benzo(b&j)fluoranthene N22-De0010929 NCP % 86 70-130 Pass
Benzo(g.h.i)perylene         N22-De0010929         NCP         %         93         70-130         Pass
Benzo(k)fluoranthene N22-De0010929 NCP % 98 70-130 Pass
Chrysene         N22-De0010929         NCP         %         88         70-130         Pass
Dibenz(a.h)anthracene N22-De0010929 NCP % 98 70-130 Pass
Fluoranthene         N22-De0010929         NCP         %         86         70-130         Pass
Fluorene         N22-De0010929         NCP         %         81         70-130         Pass
Indeno(1.2.3-cd)pyrene N22-De0010929 NCP % 93 70-130 Pass
Naphthalene         N22-De0010929         NCP         %         83         70-130         Pass
Phenanthrene         N22-De0010929         NCP         %         79         70-130         Pass
Pyrene         N22-De0010929         NCP         %         86         70-130         Pass
Spike - % Recovery
Organochlorine Pesticides Result 1
Chlordanes - Total         N22-De0010929         NCP         %         89         70-130         Pass
4.4'-DDD N22-De0010929 NCP % 92 70-130 Pass
4.4'-DDE N22-De0010929 NCP % 91 70-130 Pass
4.4'-DDT N22-De0010929 NCP % 98 70-130 Pass
a-HCH N22-De0010929 NCP % 83 70-130 Pass
Aldrin         N22-De0010929         NCP         %         93         70-130         Pass
b-HCH N22-De0010929 NCP % 92 70-130 Pass
d-HCH N22-De0010929 NCP % 88 70-130 Pass
Dieldrin         N22-De0010929         NCP         %         90         70-130         Pass
Endosulfan I         N22-De0010929         NCP         %         85         70-130         Pass
Endosulfan II         N22-De0010929         NCP         %         87         70-130         Pass
Endosulfan sulphate N22-De0010929 NCP % 95 70-130 Pass
Endrin N22-De0010929 NCP % 103 70-130 Pass
Endrin aldehyde N22-De0010929 NCP % 94 70-130 Pass
Endrin ketone         N22-De0010929         NCP         %         89         70-130         Pass
g-HCH (Lindane) N22-De0010929 NCP % 82 70-130 Pass
Heptachlor         N22-De0010929         NCP         %         86         70-130         Pass
Heptachlor epoxide     N22-De0010929     NCP     %     88     70-130     Pass
Hexachlorobenzene         N22-De0010929         NCP         %         88         70-130         Pass



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	N22-De0010929	NCP	%	93			70-130	Pass	
Spike - % Recovery			,,,				1		
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1					
TRH C10-C14	N22-De0014063	CP	%	80			70-130	Pass	
Spike - % Recovery	•				<u> </u>		•		
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1					
TRH >C10-C16	N22-De0014063	CP	%	80			70-130	Pass	
Spike - % Recovery				•					
Heavy Metals				Result 1					
Arsenic	N22-De0014069	CP	%	99			75-125	Pass	
Cadmium	N22-De0014069	CP	%	96			75-125	Pass	
Chromium	N22-De0014069	CP	%	105			75-125	Pass	
Copper	N22-De0014069	CP	%	105			75-125	Pass	
Lead	N22-De0014069	CP	%	101			75-125	Pass	
Mercury	N22-De0014069	CP	%	108			75-125	Pass	
Nickel	N22-De0014069	CP	%	103			75-125	Pass	
Zinc	N22-De0014069	CP	%	94			75-125	Pass	
Spike - % Recovery								-	
				Result 1					
Chloride	N22-De0014080	CP	%	125			70-130	Pass	
Sulphate (as SO4)	N22-De0014080	CP	%	126			70-130	Pass	
Spike - % Recovery				1	1		1		
Phenols (Halogenated)	1			Result 1					
2-Chlorophenol	S22-De0011378	NCP	%	90			30-130	Pass	
4-Chloro-3-methylphenol	S22-De0011378	NCP	%	93			30-130	Pass	
Spike - % Recovery				1	1		T	1	
Phenols (non-Halogenated)	Γ			Result 1					
4-Nitrophenol	S22-De0011378	NCP	%	86			30-130	Pass	ļ
Phenol	S22-De0011378	NCP	%	89			30-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate	L			1	1				
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	N22-De0014061	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate			00						
BTEX				Result 1	Result 2	RPD			
Benzene	N22-De0014061	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N22-De0014061	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N22-De0014061	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N22-De0014061	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N22-De0014061	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N22-De0014061	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	N22-De0014061	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N22-De0014061	СР	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate				1					
Polycyclic Aromatic Hydrocarbons	5			Result 1	Result 2	RPD			
Acenaphthene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	ļ
Benzo(a)pyrene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	ļ
Benzo(b&j)fluoranthene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a.h.i)pervlene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	1



Polycyclic Aromatic Hydrocarbons         Feasult         Result         Reput	Duplicate									
Benzofkiluominhene         Si22-ben202211         NCP         mgka         < < 0.5	Polycyclic Aromatic Hydrocarbons	6		-	Result 1	Result 2	RPD			
Chryane         S22-De002211         NCP         mgka         < < 0.6.         < < 0.6.         < < 1         30%         Pass           Fluoranthena         S22-De002211         NCP         mgka         < < 0.5.	Benzo(k)fluoranthene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Debm         S22-boo20211         NCP         mg/kg         < 0.5         < 0.5         < 1         30%         Pass           Fluoranthone         S22-boo20211         NCP         mg/kg         < 0.5	Chrysene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Flucamene         S22-be0020211         NCP         mgkg         < 0.5         < < 0.5         < < 1         30%         Pass           Indenol 12.3:03/pyrene         S22-be0020211         NCP         mgkg         < 0.5	Dibenz(a.h)anthracene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluene         S22-be002211         NCP         mg/kg         < 0.5         < < 0.5         < < 1         30%         Pass           Napithalene         S22-be002211         NCP         mg/kg         < 0.5	Fluoranthene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indenol 12.3-adgyrene         S22-be0002211         NCP         mg/kq         < 0.5.         < 0.1         30%         Pass           Phenanthrene         S22-be002211         NCP         mg/kq         < 0.5.	Fluorene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene         S22-be0020211         NCP         mg/kg         < 0.5.         < c1         30%         Pass           Pytene         S22-be0020211         NCP         mg/kg         < 0.5.	Indeno(1.2.3-cd)pyrene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenamitrene         S22-De0020211         NCP         mg/kg         < 0.5         < 1         30%         Pass           Depicate         Depicate         Result 1         Result 2         RPD             Organochlorine Pesticides         Result 1         Result 2         RPD             Churdanes - Total         S22-De002211         NCP         mg/kg         <0.05	Naphthalene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrone         S22-0e0020211         NCP         mg/kg         < 0.5         < 1         30%         Pass           Duplicate         Torgancchlorine Pesticides         Result 1         Result 2         RPD         Image: Control 1         NCP         mg/kg         < 0.1	Phenanthrene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate         Corpanch/original Pesiticides         Result 1         Result 1         Result 2         RPD         Image: Corpancies 2000           Chordanes - Total         \$22-be0020211         NCP         mgkg         < 0.05	Pyrene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Organochorine Pesticides         Result 1         Result 2         RPD            Chiordanes Total         \$22-06020211         NCP         mg/kg         < 0.05	Duplicate				1					
Chiodrames - Total         S22-be002211         NCP         mg/kg         < 0.1         < 1         < 1         30%         Pass           4.4*DDD         S22-be002211         NCP         mg/kg         < 0.05	Organochlorine Pesticides				Result 1	Result 2	RPD			
4.4-DDD       S22-De0020211       NCP       mg/kg       <0.05	Chlordanes - Total	S22-De0020211	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4-DDE       S22-De0020211       NCP       mg/kg       < 0.05	4.4'-DDD	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4:DDT         S22-De0020211         NCP         mgkg         < 0.05	4.4'-DDE	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a+HCH         S22-De0020211         NCP         mg/kg         <0.05         <0.05         <1         30%         Pass           Aidrin         S22-De0020211         NCP         mg/kg         <0.05	4.4'-DDT	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Addim         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           b-HCH         S22-De0020211         NCP         mg/kg         < 0.05	а-НСН	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b+HCH         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           dHCH         S22-De0020211         NCP         mg/kg         < 0.05	Aldrin	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d+HCH         S22-De0020211         NCP         mg/kg         <0.05         <0.05         <1         30%         Pass           Dieldrin         S22-De0020211         NCP         mg/kg         <0.05	b-HCH	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           Endosulfan II         S22-De0020211         NCP         mg/kg         < 0.05	d-HCH	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           Endosulfan II         S22-De0020211         NCP         mg/kg         < 0.05	Dieldrin	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II         S22-De0020211         NCP         mg/kg         < 0.05         < 1         30%         Pass           Endosulfan sulphate         S22-De0020211         NCP         mg/kg         < 0.05	Endosulfan I	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate         S22-De0020211         NCP         mg/kg         < 0.05         < 1         30%         Pass           Endrin         S22-De0020211         NCP         mg/kg         < 0.05	Endosulfan II	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           Endrin ladehyde         S22-De0020211         NCP         mg/kg         < 0.05	Endosulfan sulphate	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde         S22-De0020211         NCP         mg/kg         < 0.05         < 0.05         < 1         30%         Pass           Endrin ketone         S22-De0020211         NCP         mg/kg         < 0.05	Endrin	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Endrin aldehyde	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g+HCH (Lindane)         S22-De0020211         NCP         mg/kg         < 0.05         < 1         30%         Pass           Heptachlor         S22-De0020211         NCP         mg/kg         < 0.05	Endrin ketone	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	g-HCH (Lindane)	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Heptachlor	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene         S22-De0020211         NCP         mg/kg         < 0.05         < 1         30%         Pass           Methoxychlor         S22-De0020211         NCP         mg/kg         < 0.05	Heptachlor epoxide	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor         S22-De0020211         NCP         mg/kg         < 0.05         < 1         30%         Pass           Toxaphene         S22-De0020211         NCP         mg/kg         < 0.5	Hexachlorobenzene	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene         S22-De0020211         NCP         mg/kg         < 0.5         < 1         30%         Pass           Duplicate         Result 1         Result 2         RPD            % Moisture         N22-De0014064         CP         %         24         22         7.0         30%         Pass           Duplicate         Result 1         Result 2         RPD            Arsenic         N22-De0014067         CP         mg/kg         7.1         7.5         5.0         30%         Pass           Cadmium         N22-De0014067         CP         mg/kg         < 0.4	Methoxychlor	S22-De0020211	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate           % Moisture         N22-De0014064         CP         % esult 1         Result 2         RPD            % Moisture         N22-De0014064         CP         %         24         22         7.0         30%         Pass           Duplicate          Result 1         Result 2         RPD             Arsenic         N22-De0014067         CP         mg/kg         7.1         7.5         5.0         30%         Pass           Cadmium         N22-De0014067         CP         mg/kg         5.8         6.3         8.7         30%         Pass           Copper         N22-De0014067         CP         mg/kg         11         11         3.5         30%         Pass           Lead         N22-De0014067         CP         mg/kg         5.1         1.1         30%         Pass           Necury         N22-De0014067         CP         mg/kg         5.1         1.1         30%         Pass           Nickel         N22-De0014067         CP         mg/kg         4.5         4.5         <1	Toxaphene	S22-De0020211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Result 1         Result 2         RPD         Image: Mage:	Duplicate									
% Moisture         N22-De0014064         CP         %         24         22         7.0         30%         Pass           Duplicate         Result 1         Result 1         Result 2         RPD             Arsenic         N22-De0014067         CP         mg/kg         7.1         7.5         5.0         30%         Pass           Cadmium         N22-De0014067         CP         mg/kg         5.8         6.3         8.7         30%         Pass           Chromium         N22-De0014067         CP         mg/kg         5.8         6.3         8.7         30%         Pass           Copper         N22-De0014067         CP         mg/kg         5.1         1.1         30%         Pass           Lead         N22-De0014067         CP         mg/kg         5.2         5.1         1.1         30%         Pass           Mercury         N22-De0014067         CP         mg/kg         4.1         30%         Pass           Nickel         N22-De0014067         CP         mg/kg         4.1         30%         Pass           Duplicate         Trac         N22-De0014067         CP         mg/kg         4.5         <1					Result 1	Result 2	RPD			
Duplicate           Heavy Metals         Result 1         Result 2         RPD         Image: Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan= 100 Colspan="6">Colspan= 100 Colspan= 100 Colspan="6">Colspan= 100 Colspan="6">Colspan= 100 Colspan= 100 Colspan="6">Colspan= 100 Colspan= 100 Cols	% Moisture	N22-De0014064	CP	%	24	22	7.0	30%	Pass	
Heavy Metals         Result 1         Result 2         RPD         Image: Second Se	Duplicate									
Arsenic         N22-De0014067         CP         mg/kg         7.1         7.5         5.0         30%         Pass           Cadmium         N22-De0014067         CP         mg/kg         <0.4	Heavy Metals				Result 1	Result 2	RPD			
Cadmium         N22-De0014067         CP         mg/kg         < 0.4         < 1         30%         Pass           Chromium         N22-De0014067         CP         mg/kg         5.8         6.3         8.7         30%         Pass           Copper         N22-De0014067         CP         mg/kg         11         11         3.5         30%         Pass           Lead         N22-De0014067         CP         mg/kg         5.2         5.1         1.1         30%         Pass           Mercury         N22-De0014067         CP         mg/kg         <0.1	Arsenic	N22-De0014067	CP	mg/kg	7.1	7.5	5.0	30%	Pass	
Chromium         N22-De0014067         CP         mg/kg         5.8         6.3         8.7         30%         Pass           Copper         N22-De0014067         CP         mg/kg         11         11         3.5         30%         Pass           Lead         N22-De0014067         CP         mg/kg         5.2         5.1         1.1         30%         Pass           Mercury         N22-De0014067         CP         mg/kg         <0.1	Cadmium	N22-De0014067	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Copper         N22-De0014067         CP         mg/kg         11         11         3.5         30%         Pass           Lead         N22-De0014067         CP         mg/kg         5.2         5.1         1.1         30%         Pass           Mercury         N22-De0014067         CP         mg/kg         <0.1	Chromium	N22-De0014067	CP	mg/kg	5.8	6.3	8.7	30%	Pass	
Lead         N22-De0014067         CP         mg/kg         5.2         5.1         1.1         30%         Pass           Mercury         N22-De0014067         CP         mg/kg         <0.1	Copper	N22-De0014067	CP	mg/kg	11	11	3.5	30%	Pass	
Mercury         N22-De0014067         CP         mg/kg         < 0.1         < 1         30%         Pass           Nickel         N22-De0014067         CP         mg/kg         11         12         4.1         30%         Pass           Zinc         N22-De0014067         CP         mg/kg         45         45         <1	Lead	N22-De0014067	CP	mg/kg	5.2	5.1	1.1	30%	Pass	
Nickel         N22-De0014067         CP         mg/kg         11         12         4.1         30%         Pass           Zinc         N22-De0014067         CP         mg/kg         45         45         <1	Mercury	N22-De0014067	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Zinc         N22-De0014067         CP         mg/kg         45         45         <1         30%         Pass           Duplicate         Total Recoverable Hydrocarbons - 1999 NEPM Fractions         Result 1         Result 2         RPD            TRH C10-C14         N22-De0014074         CP         mg/kg         <20	Nickel	N22-De0014067	CP	mg/kg	11	12	4.1	30%	Pass	
Duplicate           Total Recoverable Hydrocarbons - 1999 NEPM Fractions           Result 1         Result 2         RPD         Image: Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"C	Zinc	N22-De0014067	CP	mg/kg	45	45	<1	30%	Pass	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions         Result 1         Result 2         RPD         Image: Constraint of the system	Duplicate									
TRH C10-C14         N22-De0014074         CP         mg/kg         < 20         < 20         < 1         30%         Pass           TRH C15-C28         N22-De0014074         CP         mg/kg         < 50	Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C15-C28         N22-De0014074         CP         mg/kg         < 50         < 50         < 1         30%         Pass           TRH C29-C36         N22-De0014074         CP         mg/kg         < 50	TRH C10-C14	N22-De0014074	СР	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C29-C36         N22-De0014074         CP         mg/kg         < 50         < 1         30%         Pass           Duplicate         Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Result 2         RPD         Image: Control of the state of th	TRH C15-C28	N22-De0014074	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate           Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Result 2         RPD         Image: Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6">Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Colspan="6"Cols	TRH C29-C36	N22-De0014074	СР	mg/kg	< 50	< 50	<1	30%	Pass	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions         Result 1         Result 2         RPD         Image: Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5">Colspan="5"Colspan="5"Colspan="5">Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5">Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"Colspan="5"	Duplicate									
TRH >C10-C16         N22-De0014074         CP         mg/kg         < 50         < 1         30%         Pass           TRH >C16-C34         N22-De0014074         CP         mg/kg         < 100	Total Recoverable Hydrocarbons -	Result 1	Result 2	RPD						
TRH >C16-C34         N22-De0014074         CP         mg/kg         < 100         <1         30%         Pass           TRH >C34-C40         N22-De0014074         CP         mg/kg         < 100	TRH >C10-C16	N22-De0014074	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C34-C40         N22-De0014074         CP         mg/kg         < 100         <1         30%         Pass	TRH >C16-C34	N22-De0014074	CP	mg/kg	< 100	< 100	<1	30%	Pass	
	TRH >C34-C40	N22-De0014074	CP	mg/kg	< 100	< 100	<1	30%	Pass	



Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N22-De0014075	CP	mg/kg	6.5	5.6	15	30%	Pass	
Cadmium	N22-De0014075	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N22-De0014075	СР	mg/kg	5.3	5.1	4.0	30%	Pass	
Copper	N22-De0014075	СР	mg/kg	10	9.2	9.7	30%	Pass	
Lead	N22-De0014075	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N22-De0014075	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N22-De0014075	CP	mg/kg	11	10	7.4	30%	Pass	
Zinc	N22-De0014075	СР	mg/kg	42	37	13	30%	Pass	
Duplicate							•		
				Result 1	Result 2	RPD			
% Moisture	N22-De0014076	CP	%	3.9	5.9	40	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	N22-De0014077	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate							•		
BTEX				Result 1	Result 2	RPD			
Benzene	N22-De0014077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N22-De0014077	СР	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N22-De0014077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N22-De0014077	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N22-De0014077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N22-De0014077	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	N22-De0014077	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N22-De0014077	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	N22-De0014079	CP	mg/kg	23	24	2.2	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M22-De0030949	NCP	uS/cm	340	410	18	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	N22-De0014079	СР	pH Units	7.8	7.7	<1	30%	Pass	
Resistivity*	S22-De0021761	NCP	ohm.m	71	75	4.8	30%	Pass	
Sulphate (as SO4)	N22-De0014079	CP	mg/kg	13	15	11	30%	Pass	
Exchangeable Sodium Percentage (ESP)	B22-De0017737	NCP	%	2.8	2.8	<1	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	B22-De0017737	NCP	meg/100g	3.5	3.1	13	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S22-De0019761	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S22-De0019761	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	S22-De0019761	NCP	mg/ka	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S22-De0019761	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S22-De0019761	NCP	mg/ka	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S22-De0019761	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	S22-De0019761	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	S22-De0019761	NCP	mg/kg	< 10	< 10	<1	30%	Pass	



Duplicate										
Phenols (non-Halogenated)	Phenols (non-Halogenated)									
2-Cyclohexyl-4.6-dinitrophenol	S22-De0019761	NCP	mg/kg	< 20	< 20	<1	30%	Pass		
2-Methyl-4.6-dinitrophenol	S22-De0019761	NCP	mg/kg	< 5	< 5	<1	30%	Pass		
2-Nitrophenol	S22-De0019761	NCP	mg/kg	< 1	< 1	<1	30%	Pass		
2.4-Dimethylphenol	S22-De0019761	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
2.4-Dinitrophenol	S22-De0019761	NCP	mg/kg	< 5	< 5	<1	30%	Pass		
2-Methylphenol (o-Cresol)	S22-De0019761	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass		
3&4-Methylphenol (m&p-Cresol)	S22-De0019761	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass		
4-Nitrophenol	S22-De0019761	NCP	mg/kg	< 5	< 5	<1	30%	Pass		
Dinoseb	S22-De0019761	NCP	mg/kg	< 20	< 20	<1	30%	Pass		
Phenol	S22-De0019761	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		



#### Comments

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

#### **Qualifier Codes/Comments**

Code Description

0000	
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
	Discussion Theorem DALL's and a state of the

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

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

#### Authorised by:

Andrew Black	Analytical Services Manager
Chamath JHM Annakkage	Senior Analyst-Asbestos
Mary Makarios	Senior Analyst-Metal
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Inorganic
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile
Ryan Phillips	Senior Analyst-Inorganic
Scott Beddoes	Senior Analyst-Inorganic

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested
- \* Indicates NATA accreditation does not cover the performance of this service

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

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



#### **CERTIFICATE OF ANALYSIS**

Work Order	ES2244543	Page	: 1 of 6
Client	: QUALTEST LABORATORY( NSW) PTY LTD	Laboratory	Environmental Division Sydney
Contact	: EMMA COLEMAN	Contact	: Customer Services ES
Address	2 MURRAY DWYER CIRUIT	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
	MAYFIELD WEST 2304		
Telephone	: 02 4968 4468	Telephone	: +61-2-8784 8555
Project	: NEW22P-0213 Voltraint, Kurri Kurri	Date Samples Received	: 09-Dec-2022 09:30
Order number	:	Date Analysis Commenced	: 14-Dec-2022
C-O-C number	:	Issue Date	: 19-Dec-2022 10:48
Sampler	: Tom Hall		Hac-MRA NAIA
Site	:		
Quote number	: EN/333		According to 025
No. of samples received	:1		Accredited for compliance with
No. of samples analysed	: 1		ISO/IEC 17025 - Testing

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

#### Signatories

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

Signatories	Position	Accreditation Category
Alex Rossi	Organic Chemist	Sydney Inorganics, Smithfield, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW



#### **General Comments**

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

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

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

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

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

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

 Key :
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

 LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.


# Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	T.5.12.22	 	 
		Samplii	ng date / time	05-Dec-2022 00:00	 	 
Compound	CAS Number	LOR	Unit	ES2244543-001	 	 
				Result	 	 
EA055: Moisture Content (Dried @ 10	)5-110°C)					
Moisture Content		1.0	%	5.3	 	 
EG005(ED093)T: Total Metals by ICP-	AES					
Arsenic	7440-38-2	5	mg/kg	6	 	 
Cadmium	7440-43-9	1	mg/kg	<1	 	 
Chromium	7440-47-3	2	mg/kg	6	 	 
Copper	7440-50-8	5	mg/kg	10	 	 
Lead	7439-92-1	5	mg/kg	<5	 	 
Nickel	7440-02-0	2	mg/kg	9	 	 
Zinc	7440-66-6	5	mg/kg	39	 	 
EG035T: Total Recoverable Mercury	by FIMS					
Mercury	7439-97-6	0.1	mg/kg	<0.1	 	 
EP075(SIM)B: Polynuclear Aromatic I	Hydrocarbons					
Naphthalene	91-20-3	0.5	mg/kg	<0.5	 	 
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	 	 
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	 	 
Fluorene	86-73-7	0.5	mg/kg	<0.5	 	 
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	 	 
Anthracene	120-12-7	0.5	mg/kg	<0.5	 	 
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	 	 
Pyrene	129-00-0	0.5	mg/kg	<0.5	 	 
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	 	 
Chrysene	218-01-9	0.5	mg/kg	<0.5	 	 
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	 	 
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	 	 
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	 	 
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	 	 
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	 	 
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	 	 
^ Sum of polycyclic aromatic hydrocarbo	ns	0.5	mg/kg	<0.5	 	 
^ Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	 	 
^ Benzo(a)pyrene TEQ (half LOR)		0.5	mg/kg	0.6	 	 
^ Benzo(a)pyrene TEQ (LOR)		0.5	mg/kg	1.2	 	 
EP080/071: Total Petroleum Hydroca	rbons					
C6 - C9 Fraction		10	mg/kg	<10	 	 

# Page : 4 of 6 Work Order : ES2244543 Client : QUALTEST LABORATORY( NSW) PTY LTD Project : NEW22P-0213 Voltraint, Kurri Kurri



# Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	T.5.12.22	 	 
		Sampli	ng date / time	05-Dec-2022 00:00	 	 
Compound	CAS Number	LOR	Unit	ES2244543-001	 	 
				Result	 	 
EP080/071: Total Petroleum Hydrocarl	oons - Continued					
C10 - C14 Fraction		50	mg/kg	<50	 	 
C15 - C28 Fraction		100	mg/kg	<100	 	 
C29 - C36 Fraction		100	mg/kg	<100	 	 
^ C10 - C36 Fraction (sum)		50	mg/kg	<50	 	 
EP080/071: Total Recoverable Hydroc	arbons - NEPM 201	3 Fractio	າຣ			
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	 	 
<sup>^</sup> C6 - C10 Fraction minus BTEX	C6_C10-BTEX	10	mg/kg	<10	 	 
(F1)						
>C10 - C16 Fraction		50	mg/kg	<50	 	 
>C16 - C34 Fraction		100	mg/kg	<100	 	 
>C34 - C40 Fraction		100	mg/kg	<100	 	 
^ >C10 - C40 Fraction (sum)		50	mg/kg	<50	 	 
^ >C10 - C16 Fraction minus Naphthalene		50	mg/kg	<50	 	 
(F2)						
EP080: BTEXN						
Benzene	71-43-2	0.2	mg/kg	<0.2	 	 
Toluene	108-88-3	0.5	mg/kg	<0.5	 	 
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	 	 
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	 	 
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	 	 
^ Sum of BTEX		0.2	mg/kg	<0.2	 	 
^ Total Xylenes		0.5	mg/kg	<0.5	 	 
Naphthalene	91-20-3	1	mg/kg	<1	 	 
EP075(SIM)S: Phenolic Compound Su	rrogates					
Phenol-d6	13127-88-3	0.5	%	94.0	 	 
2-Chlorophenol-D4	93951-73-6	0.5	%	104	 	 
2.4.6-Tribromophenol	118-79-6	0.5	%	78.2	 	 
EP075(SIM)T: PAH Surrogates						
2-Fluorobiphenyl	321-60-8	0.5	%	97.6	 	 
Anthracene-d10	1719-06-8	0.5	%	99.9	 	 
4-Terphenyl-d14	1718-51-0	0.5	%	104	 	 
EP080S: TPH(V)/BTEX Surrogates						
1.2-Dichloroethane-D4	17060-07-0	0.2	%	76.9	 	 
Toluene-D8	2037-26-5	0.2	%	103	 	 



# Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	T.5.12.22				
		Samplin	g date / time	05-Dec-2022 00:00				
Compound	CAS Number	LOR	Unit	ES2244543-001				
				Result				
EP080S: TPH(V)/BTEX Surrogates - Cor	EP080S: TPH(V)/BTEX Surrogates - Continued							
4-Bromofluorobenzene	460-00-4	0.2	%	106				



# Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)			
		Low	High		
Compound	CAS Number	LOW	nigii		
EP075(SIM)S: Phenolic Compound Surrogates	\$				
Phenol-d6	13127-88-3	63	123		
2-Chlorophenol-D4	93951-73-6	66	122		
2.4.6-Tribromophenol	118-79-6	40	138		
EP075(SIM)T: PAH Surrogates					
2-Fluorobiphenyl	321-60-8	70	122		
Anthracene-d10	1719-06-8	66	128		
4-Terphenyl-d14	1718-51-0	65	129		
EP080S: TPH(V)/BTEX Surrogates					
1.2-Dichloroethane-D4	17060-07-0	73	133		
Toluene-D8	2037-26-5	74	132		
4-Bromofluorobenzene	460-00-4	72	130		



# **QUALITY CONTROL REPORT**

Work Order	ES2244543	Page	: 1 of 7
Client	: QUALTEST LABORATORY( NSW) PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: EMMA COLEMAN	Contact	: Customer Services ES
Address	2 MURRAY DWYER CIRUIT MAYFIELD WEST 2304	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: 02 4968 4468	Telephone	: +61-2-8784 8555
Project	: NEW22P-0213 Voltraint, Kurri Kurri	Date Samples Received	: 09-Dec-2022
Order number	:	Date Analysis Commenced	: 14-Dec-2022
C-O-C number	:	Issue Date	19-Dec-2022
Sampler	: Tom Hall		Hac-MRA NATA
Site	:		
Quote number	: EN/333		Accreditation No. 825
No. of samples received	: 1		Accredited for compliance with
No. of samples analysed	: 1		ISO/IEC 17025 - Testing

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

This Quality Control Report contains the following information:

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

#### Signatories

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

Signatories	Position	Accreditation Category
Alex Rossi	Organic Chemist	Sydney Inorganics, Smithfield, NSW
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW



#### **General Comments**

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

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Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

# = Indicates failed QC

#### Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Tot	al Metals by ICP-AES (QC L	ot: 4767989)							
ES2244505-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
ES2244513-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	30	34	12.6	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	20	21	5.4	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	11	13	18.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	42	45	6.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	17	21	22.6	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	37	38	0.0	No Limit
EA055: Moisture Co	ntent (Dried @ 105-110°C) (0	QC Lot: 4767997)							
ES2244505-003	Anonymous	EA055: Moisture Content		0.1	%	22.4	21.5	4.4	0% - 20%
ES2244516-003	Anonymous	EA055: Moisture Content		0.1	%	27.0	28.7	5.9	0% - 20%
EG035T: Total Reco	verable Mercury by FIMS (C	QC Lot: 4767991)							
ES2244513-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2244614-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP075(SIM)B: Polyn	uclear Aromatic Hydrocarbo	ns (QC Lot: 4767002)							
ES2244516-002	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page	: 3 of 7
Work Order	: ES2244543
Client	: QUALTEST LABORATORY( NSW) PTY LTD
Project	: NEW22P-0213 Voltraint, Kurri Kurri



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynu	clear Aromatic Hydroca	rbons (QC Lot: 4767002) - continued							
ES2244516-002	Anonymous	EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		hydrocarbons							
		EP075(SIM): Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2245046-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		hydrocarbons							
		EP075(SIM): Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Peti	roleum Hydrocarbons (C	QC Lot: 4767001)							
ES2244516-002	Anonymous	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit

Page	: 4 of 7
Work Order	: ES2244543
Client	: QUALTEST LABORATORY( NSW) PTY LTD
Project	: NEW22P-0213 Voltraint, Kurri Kurri



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petr	oleum Hydrocarbons (QC I	_ot: 4767001) - continued							
ES2244516-002	Anonymous	EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES2245046-001	Anonymous	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petr	oleum Hydrocarbons (QC I	_ot: 4767350)							
ES2244505-001	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ES2244505-009	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Rec	overable Hydrocarbons - NI	EPM 2013 Fractions (QC Lot: 4767001)							
ES2244516-002	Anonymous	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES2245046-001	Anonymous	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Rec	overable Hydrocarbons - NI	EPM 2013 Fractions (QC Lot: 4767350)							
ES2244505-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2244505-009	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC L	.ot: 4767350)								
ES2244505-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3						
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2244505-009	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3						
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit



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

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

Sub-Matrix: SOIL				Method Blank (MB)	Laboratory Control Spike (LCS) Report			
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 47	767989)							
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	91.7	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	128	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	104	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	110	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	92.4	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	95.2	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	86.0	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLo	ot: 4767991)							
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	92.0	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (	QCLot: 4767002)							
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	93.6	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	97.7	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	102	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	106	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	97.6	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	102	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	102	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	93.1	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	102	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	6 mg/kg	89.5	68.0	116
	205-82-3							
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	98.0	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	96.4	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	99.2	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	103	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	95.5	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4	4767001)							
EP071: C10 - C14 Fraction		50	mg/kg	<50	300 mg/kg	115	75.0	129
EP071: C15 - C28 Fraction		100	mg/kg	<100	450 mg/kg	110	77.0	131
EP071: C29 - C36 Fraction		100	mg/kg	<100	300 mg/kg	105	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4	4767350)							
EP080: C6 - C9 Fraction		10	mg/kg	<10	26 mg/kg	104	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM	2013 Fractions (QCL	ot: 4767001)						

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Work Order	: ES2244543
Client	: QUALTEST LABORATORY( NSW) PTY LTD
Project	: NEW22P-0213 Voltraint, Kurri Kurri



Sub-Matrix: SOIL	Method Blank (MB)	Laboratory Control Spike (LCS) Report						
				Report	Spike	Spike Recovery (%)	Acceptable	e Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	2013 Fractions (QCL	Lot: 4767001) - co	ontinued					
EP071: >C10 - C16 Fraction		50	mg/kg	<50	375 mg/kg	114	77.0	125
EP071: >C16 - C34 Fraction		100	mg/kg	<100	525 mg/kg	106	74.0	138
EP071: >C34 - C40 Fraction		100	mg/kg	<100	225 mg/kg	103	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	2013 Fractions (QCL	Lot: 4767350)						
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	108	68.4	128
EP080: BTEXN (QCLot: 4767350)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	106	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	111	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	108	65.0	117
EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	110	66.0	118
	106-42-3							
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	104	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	100	63.0	119

## Matrix Spike (MS) Report

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

Sub-Matrix: SOIL		Ма	trix Spike (MS) Report	t			
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: To	otal Metals by ICP-AES (QCLot: 4767989)						
ES2244505-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	96.3	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	90.1	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	97.3	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	99.5	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	98.9	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	95.6	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	95.6	66.0	133
EG035T: Total Rec	overable Mercury by FIMS (QCLot: 4767991)						
ES2244512-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	93.2	70.0	130
EP075(SIM)B: Poly	nuclear Aromatic Hydrocarbons (QCLot: 4767002)						
ES2245046-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	99.8	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	101	70.0	130
EP080/071: Total P	etroleum Hydrocarbons (QCLot: 4767001)						
ES2245046-001	Anonymous	EP071: C10 - C14 Fraction		480 mg/kg	112	73.0	137
		EP071: C15 - C28 Fraction		3100 mg/kg	122	53.0	131

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Project	: NEW22P-0213 Voltraint, Kurri Kurri



Sub-Matrix: SOIL		Matrix Spike (MS) Report					
				Spike	SpikeRecovery(%)	Acceptable I	.imits (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total P	etroleum Hydrocarbons (QCLot: 4767001) - continued						
ES2245046-001	Anonymous	EP071: C29 - C36 Fraction		2060 mg/kg	125	52.0	132
EP080/071: Total P	etroleum Hydrocarbons (QCLot: 4767350)						
ES2244505-001	Anonymous	EP080: C6 - C9 Fraction		32.5 mg/kg	115	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4767001)							
ES2245046-001	Anonymous	EP071: >C10 - C16 Fraction		860 mg/kg	110	73.0	137
		EP071: >C16 - C34 Fraction		4320 mg/kg	124	53.0	131
		EP071: >C34 - C40 Fraction		890 mg/kg	122	52.0	132
EP080/071: Total R	ecoverable Hydrocarbons - NEPM 2013 Fractions(QCL	ot: 4767350)					
ES2244505-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	117	70.0	130
EP080: BTEXN (QC	CLot: 4767350)						
ES2244505-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	96.2	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	102	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	105	70.0	130
		EP080: meta- & para-Xylene	108-38-3	2.5 mg/kg	105	70.0	130
			106-42-3				
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	102	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	97.2	70.0	130



QA/QC Compliance Assessment to assist with Quality Review								
Vork Order	ES2244543	Page	: 1 of 4					
Client	: QUALTEST LABORATORY( NSW) PTY LTD	Laboratory	: Environmental Division Sydney					
Contact	EMMA COLEMAN	Telephone	: +61-2-8784 8555					
Project	: NEW22P-0213 Voltraint, Kurri Kurri	Date Samples Received	: 09-Dec-2022					
Site	:	Issue Date	: 19-Dec-2022					
Sampler	: Tom Hall	No. of samples received	: 1					
Order number	:	No. of samples analysed	: 1					

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

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

# Summary of Outliers

#### **Outliers : Quality Control Samples**

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

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

#### **Outliers : Analysis Holding Time Compliance**

• <u>NO</u> Analysis Holding Time Outliers exist.

#### **Outliers : Frequency of Quality Control Samples**

• <u>NO</u> Quality Control Sample Frequency Outliers exist.



# Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL				Evaluation	: × = Holding time	breach ; ✓ = Withi	in holding time.
Method	Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) T.5.12.22	05-Dec-2022				14-Dec-2022	19-Dec-2022	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) T.5.12.22	05-Dec-2022	14-Dec-2022	03-Jun-2023	1	16-Dec-2022	03-Jun-2023	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) T.5.12.22	05-Dec-2022	14-Dec-2022	02-Jan-2023	1	16-Dec-2022	02-Jan-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) T.5.12.22	05-Dec-2022	14-Dec-2022	19-Dec-2022	~	16-Dec-2022	23-Jan-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) T.5.12.22	05-Dec-2022	14-Dec-2022	19-Dec-2022	1	16-Dec-2022	19-Dec-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) T.5.12.22	05-Dec-2022	14-Dec-2022	19-Dec-2022	1	16-Dec-2022	19-Dec-2022	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) T.5.12.22	05-Dec-2022	14-Dec-2022	19-Dec-2022	~	16-Dec-2022	19-Dec-2022	~



# **Quality Control Parameter Frequency Compliance**

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

Matrix: SOIL				Evaluatio	on: × = Quality Co	ontrol frequency	not within specification ; $\checkmark$ = Quality Control frequency within specification.
Quality Control Sample Type		С	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	00	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard



# **Brief Method Summaries**

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



# SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	ES2244543						
Client	QUALTEST LABORATORY( NSW) PTY	Laboratory : Environmental Division Sydney					
Contact	: EMMA COLEMAN	Contact :	Customer Services ES				
Address	2 MURRAY DWYER CIRUIT MAYFIELD WEST 2304	Address :	277-289 Woodpark Road Smithfield NSW Australia 2164				
E-mail	: emmacoleman@qualtest.com.au	E-mail :	ALSEnviro.Sydney@ALSGlobal.com				
Telephone	: 02 4968 4468	Telephone :	+61-2-8784 8555				
Facsimile	: 02 4960 9775	Facsimile :	+61-2-8784 8500				
Project	: NEW22P-0213 Voltraint, Kurri Kurri	Page :	1 of 3				
Order number	:	Quote number :	EN2018QUATES0001 (EN/333)				
C-O-C number	:	QC Level :	: NEPM 2013 B3 & ALS QC Standard				
Site	:						
Sampler	: Tom Hall						
Dates							
Date Samples Received	: 09-Dec-2022 09:30	Issue Date	: 12-Dec-2022				
Client Requested Due Date	: 16-Dec-2022	Scheduled Reporting Da	te 16-Dec-2022				
Delivery Details	;						
Mode of Delivery	: Carrier	Security Seal	: Not Available				
No. of coolers/boxes	: 1	Temperature	: 14.6'C - Ice Bricks present				
Receipt Detail	:	No. of samples received	/ analysed : 1 / 1				

## **General Comments**

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical
  analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this
  temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS
  recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.



#### Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

#### • No sample container / preservation non-compliance exists.

#### Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date

is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component 55-103 ntent

is prov laborato	ided, ry a	the and	sampling displayed	date in b	will oracke	be ets	assumed without	by a	the time				NPAH
compon	ent									103	ant		BIEX
Matrix:	SOIL									EA055-	e Conte	S-26	S/ I KH/I
Laborate ID	ory sai	mple	Samp	oling date time	e /	S	Sample ID			SOIL - I	Moistur	SOIL -	8 metal
ES2244	543-0	01	05-Dec-20	22 00:00	) Т.	5.12.	.22			٧	1	√	

# Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

# Requested Deliverables

ACCOUNTS PAYABLE		
- A4 - AU Tax Invoice (INV)	Email	accounts@qualtest.com.au
BILLY SNOW		
<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	billysnow@qualtest.com.au
<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	billysnow@qualtest.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	Email	billysnow@qualtest.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	billysnow@qualtest.com.au
- Chain of Custody (CoC) (COC)	Email	billysnow@qualtest.com.au
- EDI Format - ENMRG (ENMRG)	Email	billysnow@qualtest.com.au
- EDI Format - ESDAT (ESDAT)	Email	billysnow@qualtest.com.au
<ul> <li>EDI Format - EXCEL_GENERIC (EXCEL_GENERIC)</li> </ul>	Email	billysnow@qualtest.com.au
- EDI Format - XTab (XTAB)	Email	billysnow@qualtest.com.au
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<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	emmacoleman@qualtest.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	Email	emmacoleman@qualtest.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	emmacoleman@qualtest.com.au
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- EDI Format - ENMRG (ENMRG)	Email	emmacoleman@qualtest.com.au
- EDI Format - ESDAT (ESDAT)	Email	emmacoleman@qualtest.com.au
<ul> <li>EDI Format - EXCEL_GENERIC (EXCEL_GENERIC)</li> </ul>	Email	emmacoleman@qualtest.com.au
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<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	Email	libbybetz@qualtest.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	libbybetz@qualtest.com.au
- Chain of Custody (CoC) (COC)	Email	libbybetz@qualtest.com.au
- EDI Format - ENMRG (ENMRG)	Email	libbybetz@qualtest.com.au
- EDI Format - ESDAT (ESDAT)	Email	libbybetz@qualtest.com.au
<ul> <li>EDI Format - EXCEL_GENERIC (EXCEL_GENERIC)</li> </ul>	Email	libbybetz@qualtest.com.au
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- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	tomhall@qualtest.com.au
- Chain of Custody (CoC) (COC)	Email	tomhall@qualtest.com.au
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