Proposed Redevelopment of Cessnock Hospital
24 View St, Cessnock NSW 2325

Preliminary Site Investigation (Limited Sampling)

Health Infrastructure c/o Turner & Townsend



Reference: 754-NTLEN347071-R01

26 August 2024

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PREPARED FOR

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Restriction on Disclosure and Use of Data
This PSI should be read in conjunction with the attached sheets ‘Important Information about your Tetra Tech Coffey Report’.

EXECUTIVE SUMMARY

Tetra Tech Coffey Pty Ltd (Tetra Tech) was engaged by Turner & Townsend Pty Ltd (Turner Townsend) on behalf of Health Infrastructure to complete a Preliminary Site Investigation (PSI) for part of Cessnock Hospital, located at 24 View Street, Cessnock New South Wales (NSW) (the Site). Refer to Figure 1 of Appendix A: for the Site locality plan.

The PSI was requested in conjunction with a hazardous materials (HAZMAT) survey of Cessnock Hospital, to inform planning for the proposed redevelopment. The HAZMAT surveys included intrusive surveys of the hospital buildings (approximately 22 in total). This has been reported separately, refer to *Cessnock Hospital Pre Demolition Hazardous Materials Survey Report June 2024* (reference: 754-NTLEN347071-1).

The purpose of the PSI was to form an opinion of the Site suitability for ongoing use within the context of the proposed redevelopment.

The primary objective of the PSI is to characterise the Site with respect to potential contamination, in accordance with the relevant NSW Environment Protection Authority (EPA) guidelines and legislation.

Tetra Tech completed a desktop review, site walkover and preliminary soil investigation across the Site. The Site was historically used for residential purposes from 1913 until 1941, and then was developed into part of Cessnock Hospital from 1941 until present. The Site has been proposed for redevelopment for the continuing commercial/industrial land use as part of Cessnock Hospital.

Sources of potential contamination have been identified at the Site as uncontrolled/ imported fill (including waste buried from the incinerator) across the grassed areas and carpark, potential leaks/spills and buried asbestos waste in the vicinity to the former incinerator/workshop buildings and potential leaks/spills from the above-ground storage tank for fuel.

Asbestos fragments were found within a fill mound at BH06 and within fill at BH09 at a depth of 0.5-0.7 mBGL. Waste generated from the stockpiling of this material would need to be managed as special waste-asbestos.

The TRH concentrations reported for sample BH13_0.0-0.2 (as TRH F3 (C_{16} - C_{34})) and sample BH15_1.0-1.2 (as TRH F2 C_{10} - C_{16} (minus Naphthalene)) were above the ESL; however, they were below adopted ecological criteria due to being less than 250% of the ESL. BH13 and BH15 were also within paved areas, with no vegetation or identified ecological receptors.

The risk of contamination to human health for the current and ongoing land uses has been assessed as low to moderate based on the findings of this PSI (including the limited soil investigation). Based on preliminary CSM, exposure pathways to ecological receptors are potentially incomplete. The risk of contamination to ecological receptors, for both the current and proposed land uses, was assessed as low.

Tetra Tech recommends a Detailed Site Investigation (DSI) to further assess the suspected asbestos, the reported PAH and petroleum hydrocarbon (as TRH) impacts in the vicinity of the incinerator and workshop buildings at BH13 and BH15 and the hoist (potential TRH/BTEXN impacts).

The DSI may be carried out during the Site redevelopment, whereby access to the footprint of the incinerator and workshop buildings may be gained (post-demolition). The DSI would provide confidence that a thorough assessment of site contamination has been undertaken as per EPA guidance and include closing out the identified data gaps pertaining to chemical characterisation of soils / asbestos on-site.

Tetra Tech recommends that the DSI be carried out by an experienced and accredited contaminated land consultant, to assess the potential presence of soil contamination at the Site.

Based on the results, the likelihood of impacts to groundwater would likely be to perched groundwater only (if present) and would not be anticipated to pose an unacceptable risk to identified groundwater receptors.

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ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
ACM	Asbestos Containing Material
AF	Asbestos Fines
AHIMS	Aboriginal Heritage Information Management System
AS	Australian Standard
ASC	Assessment of Site Contamination
BTEX	Benzene, toluene, ethylbenzene and xylenes
BYDA	Before-You-Dig-Australia
CEC	Cation exchange capacity
CCME	Canadian Council of Ministers of the Environment
COPCs	contaminants of potential concern
CLM	Contaminated Land Management
CRC CARE	Cooperative Research Centre for the Contamination Assessment and Remediation of the Environment
CSM	Conceptual Site Model
CT	Contaminant threshold
DDT	Dichloro-diphenyl-trichloroethane
DPI	Department of Primary Industries
EILs	Ecological Investigation Levels
EPA	Environment Protection Authority
ESLs	Ecological Screening Levels
Eurofins	Eurofins Environment Testing Australia Pty Ltd
FA	Fibrous Asbestos
HILs	Health Investigation Levels
HSLs	Health screening levels
LNAPL	Light non-aqueous phase liquid
mAHD	Metres in Australian Height Datum
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environmental Protection Measure
NSW	New South Wales
OCPs	Organochlorine pesticides
OPPs	Organophosphate pesticides
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyls
PID	Photo-Ionisation Detector
PFAS	Per- and Poly-Fluoroalkyl Substances

POEO	Protection of the Environment Operations
PSI	Preliminary Site Investigation
QA	Quality Assurance
QC	Quality Control
RSH	Resilience and Hazards
SCC	Specific Contaminant Concentration
SEPP	State Environmental Planning Policy
SOP	Standard Operating Procedures
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxicity Equivalence
TRH	Total Recoverable Hydrocarbons
VOCs	Volatile Organic Compounds

1. INTRODUCTION

1.1 BACKGROUND

Tetra Tech Coffey Pty Ltd (Tetra Tech) was engaged by Turner & Townsend Pty Ltd (Turner Townsend) on behalf of Health Infrastructure to complete a Preliminary Site Investigation (PSI) for the northern part of Cessnock Hospital, located at 24 View Street, Cessnock New South Wales (NSW) (the Site). Refer to Figure 1 of Appendix A: for the Site locality plan. For the purposes of this PSI, the Site was considered as the area that will be subject to the proposed redevelopment works within Cessnock Hospital as shown in Figure A.

The PSI was requested in conjunction with a hazardous materials (HAZMAT) survey of Cessnock Hospital, to inform planning for the proposed redevelopment. The HAZMAT surveys included intrusive surveys of the hospital buildings (approximately 22 in total). This has been reported separately, refer to *Cessnock Hospital Pre-Demolition Hazardous Materials Survey Report June 2024* (reference: 754-NTLEN347071-1).

The purpose of the PSI was to form an opinion of the Site suitability for ongoing use within the context of the proposed redevelopment.

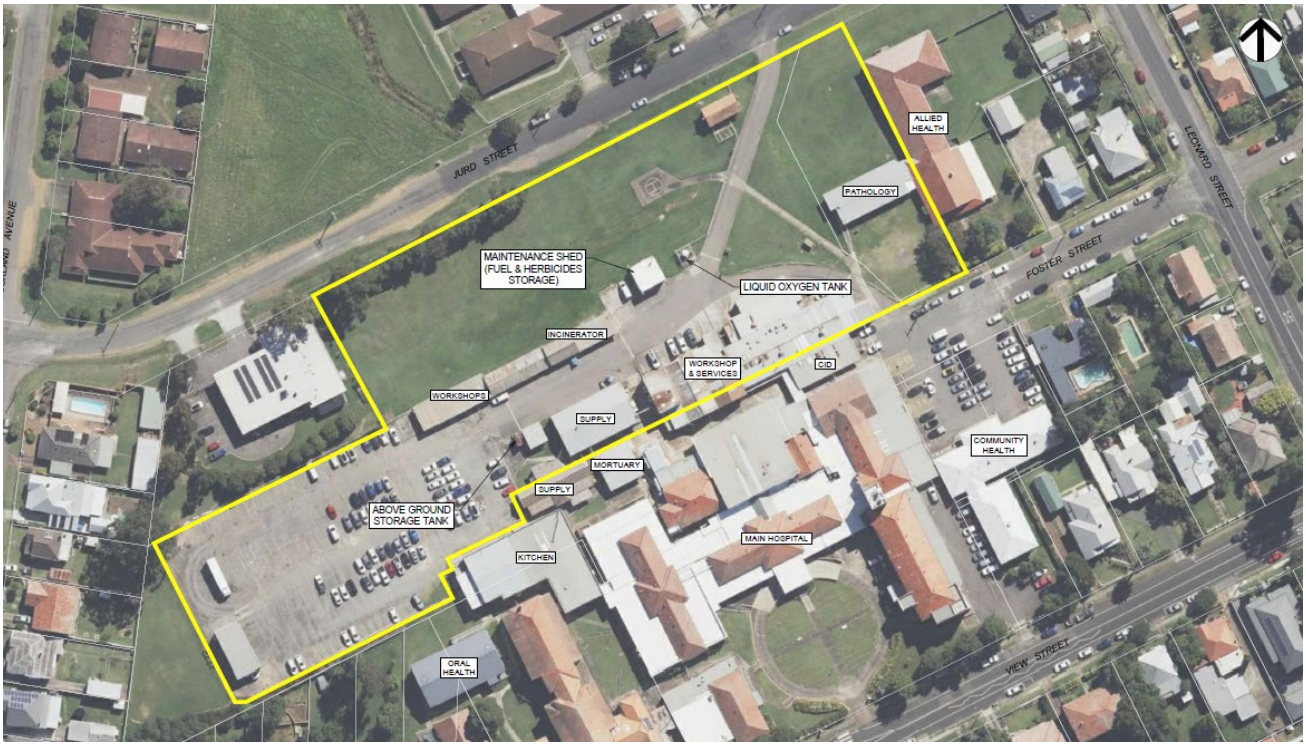


Figure A - Site layout (Site boundary outlined in yellow)

1.2 OBJECTIVES

The primary objective of the PSI is to characterise the Site with respect to potential contamination, in accordance with the relevant NSW Environment Protection Authority (EPA) guidelines and legislation.

The objectives of the PSI include:

- Assessment of contamination that has the potential to exist on the Site from past land use, with identification of known or potential sources of contamination and associated contaminants of potential concern (COPCs).
- Assessment of potential risks that may be posed to human and ecological receptors, based on the current and proposed land use.

- Provision of recommendations for further assessment and / or remediation and management, as required.
- Assessment of the suitability of the Site (from a contamination perspective) for either ongoing use as a Health Facility within the context of the proposed redevelopment.

1.3 SCOPE OF WORK

The scope of work undertaken for this PSI included:

- A desktop review of:
    - Site environmental setting (topography, geology, soils, acid sulfate soils, hydrogeology, regional registered groundwater bores and surrounding land uses).
    - NSW EPA regulatory databases of current or former notices, orders, voluntary management proposals or audits issued under the Contaminated Land Management Act 1997 or the Protection of the Environment Operations (POEO) Act 1997 for the Site and nearby properties.
    - Previous relevant environmental investigations undertaken historically at the Site (as made available by the client).
    - Historical aerial photographs for the Site and surrounds.
    - Section 10.7 ((2) and (5)) planning certificate.
    - Safework NSW Schedule 11 Hazardous chemicals on premises search.
    - Historical land titles for the Site.
    - Review and collation of the above information and identification of potential areas of environmental concern and COPCs for the Site.
- A site walkover to observe site conditions and visually inspect evidence of potential contamination.
- Gather anecdotal evidence of potential historical contamination during a project kick off meeting by Ricky Mavin (site manager from Hunter New England) on 4 June 2024
- The intrusive fieldworks comprising:
    - Borehole advancement using a hand auger at one location (BH01) to 1.2 mBGL.
    - Borehole advancement using solid-flight augers on a track-mounted mini loader, across 19 locations (BH02-BH20) to a maximum depth of about 1.5 metres below ground level (mBGL), to refusal, or one metre into natural material, whichever occurred first.
    - Screening soil for volatile organic compounds (VOCs) using a photo-ionisation detector (PID).
    - Soil sampling from both fill and natural soil profiles, with samples collected at the surface or immediately beneath the hardstand (carpark), at approximately 0.5 mBGL, 1.0 mBGL and 1.5 m or at the final depth.
    - Samples were submitted to a National Association of Testing Authorities (NATA) accredited laboratory for analysis of identified COPCs.
    - Backfilling of the 20 boreholes using drill-cuttings, levelled to the surrounding ground surface, to make the Site safe.
- Development of a risk-based preliminary Conceptual Site Model (CSM) informed by the desktop review, site walkover and soil results.
- Preparation of this PSI report documenting the findings of the scope of work described in this section, including recommendations based on the findings.

1.4 APPLICABLE LEGISLATION AND GUIDELINES

The PSI was carried out with reference to the following legislation and guidelines:

- NSW *Contaminated Land Management Act 1997* (CLM Act 1997).

- Protection of the Environment Operations Act 1997.
- New South Wales Environment Protection Authority (NSW EPA) Managing Land Contamination: Planning Guidelines; SEPP55-Remediation of Land 1998
- *Chapter 4, State Environmental Planning Policy (Resilience and Hazards) 2021* (SEPP RSH, 2021).
- National Environment Protection Council (NEPC) (2013) *The National Environmental Protection (Assessment of Site Contamination) Measure 1999*, as amended 2013 (ASC NEPM, 2013).
- NSW EPA (2020) *Consultants Reporting on Contaminated Land Guidelines* (Contaminated Land Guidelines, 2020).
- NSW EPA (2022) *Sampling design part 1 – application*.
- NSW EPA (2022) *Sampling design part 2 – interpretation.*
- NSW EPA (2014) *Waste Classification Guidelines Part 1: Classifying waste*.
- Australian Standard AS 4964 – 2004: *Method for the Qualitative Identification of Asbestos in Bulk Samples (AS4964-2004)*.
- Canadian Council of Ministers of the Environment *Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons* (CCME, 2010).
- Cooperative Research Centre for the Contamination Assessment and Remediation of the Environment (CRC CARE) 2011 *Technical Report 10, Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater Part 1: Technical Development Document*
- US EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (2006).

2. SITE INFORMATION

2.1 SITE IDENTIFICATION

Table 2.1: Summary of Site Details

Street Address	21 View Street Cessnock NSW 2325
Site Area	Approximately 1.38 hectares
Cadastre	Part of Lot 2 DP1173784
Current Zoning	SP2: Infrastructure under the Cessnock Local Environmental Plan 2011
Proposed Site Use	Continued use as a Health Services Facility
Local Government Area	Cessnock Council
Local Aboriginal Land Council	Mindaribba
Site co-ordinates	345276.339 m E 6366667.276 m N (north-western corner)
Surrounding Land Use	The remainder of Cessnock Hospital is present to the south, east and west of the Site with medium density residential properties beyond. A commercial property (Mountain View Lodge Hostel) is present to the north of the Site, over Jurd Street, followed by medium density residential properties beyond.

2.2 SITE LAYOUT AND OPERATIONS

Tetra Tech completed a Site walkover on 14 February 2024. A Site layout plan is included as Figure 2 of Appendix A:. The Site was being used as an operational hospital at the time of the Site walkover.

The Site comprised the northern part of Cessnock Hospital, including a vacant grassed area, maintenance sheds and a carpark.

Further details of the Site walkover are reported in Section 3.

2.3 DESKTOP STUDY

Key information from the desktop study is presented in the following sections.

2.3.1 Environmental Setting

Site environmental setting information is summarised in Table 2.2; this includes the topography, geology, acid sulfate soils, salinity, hydrology (surface water) and hydrogeology.

Table 2.2: Environmental setting

Item	Discussion
Topography	The Site is elevated at approximately 85-87 metres in Australian Height Datum (mAHD) (Google Earth) and gently slopes from south to north.
Geology	Cessnock 1:100 000 Geological Map (Sheet Code 9132, 1976) Permian-aged lithic sandstone, micaceous siltstone, mudstone, shale, erratics.
Soil Landscape	Soil Landscape information was accessed through the NSW eSPADE online database (retrieved from https://www.environment.nsw.gov.au/eSpade2WebApp; accessed 26 June 2024). Regional soils encompassing the Site are of the Branxton soil landscape, mainly comprised of Yellow Podzolic Soils on midslopes with Red Podzolic Soils on crests and Yellow Soloths on lower slopes and in drainage lines. Acid topsoil is reported as a problem in some areas within the Branxton soil

Item	Discussion
	landscape.
Acid Sulfate Soils (ASS)	The acid sulfate soil risk mapping on the online NSW eSPADE database (retrieved from https://www.environment.nsw.gov.au/eSpade2WebApp; accessed 26 June 2024) shows that the Site is an area of no known occurrence for acid sulfate soils. Considering the Site is elevated at 85-87 mAHD and that ASS is typical of low-lying areas, the presence of ASS is considered unlikely.
Salinity	A review of the eSPADE online database (retrieved from https://www.environment.nsw.gov.au/eSpade2WebApp; accessed 26 June 2024) revealed that the Site and nearby surrounds (<1 km) has no recorded salting evident.
Hydrology (Surface Water)	No surface water body is shown to be present on the Site, based on the review of Google Maps satellite imagery, accessed 27 June 2024. Rainfall runoff is expected to generally migrate towards the north onto Jurd Street. An unnamed ephemeral creek line appears to be present across Jurd Street to the north, that appears to drain to a wetlands system approximately 470 m north of the Site. The nearest surface water body is an unnamed tributary approximately 275 m south of the Site that flows in an easterly direction into Bellbird Creek approximately 580 m south-east of the Site. Bellbird Creek discharges to Black Creek approximately 950 m north-east f the Site. The unnamed wetlands system connects to Black Creek approximately 3 km north of the Site. Black Creek discharges to Hunter River approximately 23.67 km north of the Site. Hunter River then flows towards Newcastle and discharges into the Pacific Ocean approximately 43.5 km south-east of the Site.
Hydrogeology	Regional or perched groundwater at the Site is anticipated to flow in a north-easterly direction based on the local topography and flow direction of the surrounding surface waters. Based on the Site topography and the elevation of the nearby unnamed wetlands to the north situated at 71 mAHD, regional groundwater is anticipated to be present approximately 15 mBGL at the Site, within sandstone, siltstone, mudstone or shale. A review of the WaterNSW registered groundwater database (retrieved from https://realtimedata.waternsw.com.au/; accessed 27 June 2024) stated no sites (i.e. no registered groundwater bores) within 500 m of the Site.
Ecology	The northern portion of the Site, where a line of trees are visible, is identified on the Biodiversity Values Map as “Threatened species or communities with potential for serious and irreversible impacts” based on a search of the Site on https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap on 26 June 2024. A review of satellite imagery on Google Maps shows a tree line that Tetra Tech suspects is connected to the northern ephemeral creek and wetlands system.

2.3.2 Contaminated Land Records

Information gathered from publicly available contamination databases relating to the Site and nearby surrounds has been summarised in Table 2.3.

Table 2.3 Contaminated Land Records

Item	Details
NSW EPA List of NSW contaminated sites notified to EPA	A review of the NSW EPA list of NSW contaminated sites notified to the EPA[1], accessed on 27 June 2024, revealed that the Site had not been notified to the EPA under Section 60 of the Contaminated Land Management Act, 1997 (the CLM Act). The search revealed the following premises notified to NSW EPA within 2 km of the Site, whereby regulation under the CLM Act was not required: • Caltex Cessnock Service Station, at 103-105 Wollombi (Cnr James Street) Road, Cessnock approximately 1.27 km to the south-west. • Former Mobil Service Station, at 102 Wollombi Road, Cessnock approximately 1.16 km to the south-west. • Former Service Station, at 2-4 Allandale Road, Cessnock approximately 800 m south-east.
NSW EPA Contaminated Land Record of notices	A review of the NSW EPA record of notices[2] conducted on 27 June 2024 indicated that the Site and surrounds within 2 km have no records of notices issued by the EPA under the CLM Act.
NSW EPA POEO Records	A review of the NSW EPA POEO Act register[3], conducted on the 1 July 2024 indicated that the Site is not regulated under an environment protection licensed under the Protection of the Environment Operations Act 1997 (the POEO Act). The search results returned the following licenced premises within 2 km of the Site: • Cessnock City Council is licenced for waters within the Cessnock local government area, Cessnock, NSW; POEO licence issued in 2000 and most recent s.58 licence variation issued in January 2024. • Cessnock Golf Club Ltd received a s.110 Revocation of Clean Up Notice issued 6 May 2019 relating to the removal of asbestos waste from the golf course. Cessnock Golf Club is located approximately 950 m north-west of the Site at 26 Birkdale Boulevarde, Cessnock, NSW Daracon Property Pty Limited received a s.91 Clean Up Notice issued 31 May 2019 regarding multiple stockpiles of earth-based material which contained concrete, brick, tiles, timber, metal, plastic, and asbestos fragments stockpiled and on the ground surface at the golf club. • Hanson Construction Materials Pty Ltd, located approximately 1.23 km east at Anstey Street, Cessnock, NSW received a s.58 Licence Variation issued in 2002 for concrete works. • Hunter Water Corporation holds a licence for Cessnock Wastewater Treatment Plant located approximately 1.80 km north-east off Government Road, Cessnock, NSW. The POEO licence was issued in 2000 and the most recent s.58 Licence Variation was issued in 2018. Two Compliance Audits have been completed for the premise, in 2013 and 2020. The license is for sewage treatment processing by small plants.
Per- and Poly-Fluoroalkyl Substances (PFAS)	A review of the NSW EPA PFAS investigation program[4], conducted on the 2 July 2024, indicated that there are no sites listed on the EPA PFAS investigation program within 10 km of the Site, including the Site.
Former Gasworks	A review of the NSW list of former gasworks sites[5], conducted on 2 July 2024, indicated that one former gasworks site known as Cessnock Gasworks, registered on the NSW EPA gasworks database. The Gasworks was located on Maitland Road, Cessnock

[1] https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/list-of-notified-sites accessed on 27 June 2024
[2] https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/record-of-notices accessed on 27 June 2024
[3] https://app.epa.nsw.gov.au/prpoeoapp/ accessed on 27 June 2024
[4] https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program accessed on 2 July 2024
[5] https://www.epa.nsw.gov.au/your-environment/contaminated-land/other-contamination-issues/former-gasworks-sites accessed on 2 July 2024

	NSW.
National waste management site database	A review of the Australian Government Geoscience Australia Waste Management Facilities database[6], conducted on the 2 July 2024, indicated that there is one site registered on the National Waste Management Site Database within 5 km of the Site. The premise is Cessnock Village shopping mall, located approximately 980 m south-east of the Site, on Keene Street, Cessnock NSW.
Naturally Occurring Asbestos	A search of the NSW Trade and Investment online Naturally Occurring Asbestos GIS mapping[7] conducted on 2 July 2024, has not identified any naturally occurring asbestos areas within 1 km of the Site.
NSW Department of Primary Industries	A search of the NSW Department of Primary Industries (DPI) Cattle Dip Site Locator[8] conducted on 2 July 2024, found no registered premises that was known to have a cattle dip within the Cessnock LGA.
Unexploded ordnances (UXOs)	A search of the Government Defence UXO-mapping[9] showed no risk of UXOs at the Site or within 1 km of the Site.

2.3.3 SafeWork NSW Schedule 11 Hazardous Chemicals on Premises (Dangerous Goods Search)

The search results from the Schedule 11 dangerous goods search were returned as “no result” by Safework NSW. The search result is included as Appendix B:.

2.3.4 Section 10.7 (2) & (5) Planning Certificate

Key information from the Section 10.7 Planning Certificate for Lot 2 DP 1173784 is provided in Table 2.4. The Section 10.7 Planning Certificate is presented in Appendix C:.

Table 2.4: Section 10.7 Planning Certificate key information

Item	Comment
Critical Habitat	No.
Conservation[10]	The land does not include or comprise biodiversity conservation under the Biodiversity Conservation Act 2016. The land is not a conservation area under the Cessnock Local Environmental Plan 2011. The land is not biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016.
Environmental Heritage Area	An item of environmental heritage identified in Cessnock Local Environmental Plan 2011 is situated on the land.
Mine Subsidence	No.
Land slip	No.
Tidal Inundation	No.
Subject to Flooding	No.

[6] https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F%2Fservices.ga.gov.au%2Fgis%2Frest%2Fservices%2FWaste_Management_Facilities%2FMapServer&source=sd accessed on 2 July 2024
[7] https://trade.maps.arcgis.com/apps/PublicInformation/index.html?appid=87434b6ec7dd4aba8cb664d8e646fb06
[8] https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-locator
[9] https://uxo-map.defence.gov.au/
[10] Tetra Tech notes that although no conservation areas are listed in the Section 10.7 certificate, the northern portion of the Site, where a line of trees are visible, is identified on the Biodiversity Values Map as “Threatened species or communities with potential for serious and irreversible impacts” based on a search of the Site on https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap on 26 June 2024 (as mentioned previously in Table 2.2).

Bushfire	No.
Acid Sulfate Soils	No.
Salinity	No.
Contaminated or Potentially Contaminated Land	Applicable: Cessnock City Council _ Contaminated Land Policy _ Land Use Planning. No contamination reports included in Section 10.7 document.[11]
Loose Fill Asbestos Insulation	No.
Heritage	No. However, tetra Tech notes that on the NSW Planning Portal, the Site is zoned on the Heritage Map as "Cessnock Hospital Significance: Local"

2.3.5 Site History

2.3.5.1 Historical Aerial Photographs

A summary of the Site and immediately surrounding features from 1963 to 2022 is provided in Table 2.5. Please refer to Appendix D: for the historical aerial images.

Table 2.5: Historical aerial imagery summary

Year	Site	Nearby Surrounds (within approximately 150 m)
1963	The 1963 aerial image has poor resolution. The Site appears to have structures present in the north-eastern and southern-central portion of the Site. Details of the structures are unclear. The remainder of the Site appears to be grassed.	The remainder of Cessnock Hospital is visible adjacent to the south of the Site, with residential properties beyond to the south, south-east and south-west.
1976	Several structures are visible at of the Site, likely associated with the Cessnock Hospital. An accessway enters the Site from Jurd Street adjacent to the north. A line of trees appears to be present running approximately north-south in the central-southern portion of the Site. The northern and western portions of the Site appear to be grassed.	A road has been constructed adjacent the northern boundary of the Site (Jurd Street), running east-west. Development of medium density residential properties has continued, with additional properties visible to the east, west and north-east.
1984	Two additional structures are present on the western portion of the Site. One of these extends west from the previously visible structures from the 1976 image. The second new structure runs east-west immediately south of the other new structure. The northern Site boundary and the eastern Lot boundary appear to be lined with trees.	Further residential development has occurred south and north-west of the Site.
1994	One additional structure and several cars are present in the south-western position of the Site. This part of the Site is no longer grassed and appears to be sealed. Another structure is present, as an extension to the pre-existing structure adjacent to the east of the Site, in the eastern portion of the Site. A second accessway to the Site is clearly visible from the east, off Foster Street. A helicopter pad is visible in the north-eastern portion of the Site.	Part of Cessnock Hospital adjacent to the east of the Site appears to have had an extension towards the north. Further residential development has occurred north of the Site. A larger structure (now an aged care service) is visible over the road (Jurd Street) to the north.
2007	What may be two above-ground storage tanks appear to be visible in the 2007 image. One is located in the central portion of the Site adjacent a structure, and the other is present in the grassed area in the central-eastern portion of the Site. Several cars are visible in the southern and eastern	An ephemeral creek line is visible north of the Site heading in a northerly direction.

[11] https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address accessed 27 June 2024

Year	Site	Nearby Surrounds (within approximately 150 m)
	portions of the Site.	
2017	Above-ground storage tanks associated with the structure in the south-eastern portion of the Site are no longer visible.	A new building is present immediately east/west of the Site. The larger structure (now an aged care service) has been extended to the north. A new residential allotment is present north of the Site. Further development of residential properties to the south of the Site.
2022	Two of the structures, previously visible in the western portion of the Site, are no longer present and have been converted to part of the car parking lot.	No significant changes clearly visible from the 2017 image.

2.3.5.2 Land Titles

A copy of the Land Titles for the Site is in Appendix E:. The land titles search was requested prior to the Site boundary being updated to part of Lot 2 DP1173784. As such, land titles for the Lots making up Cessnock Hospital have been included in Appendix E:.

For Lot 2 DP1173784, land title information dates back to 14th February 1913 whereby Miners privately owned the Site until 1941. The Cessnock District Hospital subsequently took over the land titles from 11 September 1941 and the Site has been a hospital from then until present. Hunter and New England Area Health Service / Health Administration Corporation took over the land title on 15 June 2007 to date.

2.3.5.3 Aboriginal Heritage

An Aboriginal Heritage Information Management System (AHIMS) search was completed for the Site on 2 July 2024, and no records of aboriginal heritage items were returned for the Site or surrounds within 500 m. A copy of the AHIMS search is presented as Appendix F:.

2.3.5.4 Previous Assessments

No previous assessments pertinent to the contamination status of the Site were made available for review to Tetra Tech during the preparation of this PSI.

2.3.5.5 Summary of Site History

In summary, the Site has been part of Cessnock Hospital since 1941 until present. Prior to 1941, a land title was held by miners dating back to 1913. Before 1913, the land was indigenous land.

The historical aerial imagery dated back to 1963 and showed the Site already developed as part of the hospital at that time. The Site layout has changed over the course of this time with the additional and subsequent removal of structures in the western portion of the Site, now a parking lot.

The surrounding area was predominantly residential land from at least 1963, that has increased in density over the course of the last 80 years.

3. SITE WALKOVER

A Tetra Tech Environmental Scientist undertook a Site 14 February 2024. A summary of the observations is provided in Table 3.1 and Site Photos are presented in Appendix G:.

Table 3.1: Site Walkover Summary

Item	Observation
Land use	The Site is part of an operational hospital. The main hospital building is to the south. Several auxiliary hospital buildings are present in the northern portion of the Site. A sealed car park occupies the south-western portion of the Site. The northern portion of the site contains a large, grassed area featuring a helicopter pad. The Surrounding land use was observed to be primarily residential, with a NSW ambulance station to the immediate north-west of Site.
Topography	The Site features a gradual slope downwards from south to north.
Ground Coverage	The Site has a large, grassed area in the northern portion. The south-western portion is primarily sealed with an asphalt carpark, and various buildings.
Chemical storage	A liquid oxygen supply tank was observed in the central eastern portion of the Site. Minor chemical storage (fuel, herbicides) was observed in the maintenance shed. An above-ground storage tank was also observed in the southern-central portion of the Site, within a bunded area. See photos 1, 2 and 3 of Appendix F:.
Odours and Emissions	No odours or emissions were detected as being emitted by the Site at the time of the Site inspection.
Noise and vibration	Ambient noise/no vibrations were observed as being emitted by the Site at the time of the Site inspection.
Surface water drainage	Surface water runoff would follow site topography into onsite stormwater drains and stormwater drains along the street. Surface water runoff is anticipated to follow the topography from south to north.
Buildings and Structures	The Site features several auxiliary hospital buildings including workshop and services buildings, yard maintenance shed, pathology clinic and incinerator. See photos 3, 4, 5 and 6 of Appendix G:.
Waste management	Waste is stored in designated areas in designated bins for disposal by waste contractors. A building labelled ‘incinerator’ was observed in the central portion of the Site. During the project kick-off meeting, Ricky Mavin (site manager from Hunter New England) commented on 4 June 2024 that the incinerator is no longer used. See photo 4 of Appendix G.
Anecdotal Information	Anecdotal information was provided by Ricky Mavin (site manager from Hunter New England) on 4 June 2024. This included an indication that asbestos waste has been buried under the building labelled ‘incinerator’ and the general maintenance shed. See Figure 2, Appendix A: for the location of these buildings. Ricky also commented that the incinerator waste was, in the past, buried within what was observed as a grassed area in the central-northern portion of the Site.
Potential Sources of Contamination	Top-down potential sources of contamination were identified as the: • area of Tecalamit hoist in the yard maintenance shed (see photo 3 of Appendix F:) where vehicle maintenance appears to have been undertaken in the past, • incinerator waste buried within grassed areas, • the above-ground storage tank (storing fuel), and • suspected buried asbestos waste beneath the incinerator building and yard maintenance shed. Old asbestos containing buildings are present on site. These may become a source of contamination pending the demolition works planned as part of Cessnock Hospital redevelopment. Oil leaks from cars in the parking lot may cause contamination where the asphalt surface is degraded (pot holes, cracks).

4. DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) were developed for the assessment of contamination in accordance with the seven-step process outlined within the Appendix C of the Schedule B2 in the NEPM (2013) and are outlined in Table 4.1.

Table 4.1: Data Quality Objectives

Step 1: State the Problem	The suitability of the Site for the proposed Cessnock Hospital redevelopment from a contaminated land perspective is unknown. An investigation was required to assess the Site condition and to establish subsequent management options (if required).
Step 2: Identify the Decision	Decision Questions: • Is the Site suitable for the proposed use (continued hospital use which is equivalent to commercial/ industrial land use in context of contaminated land)? • What is the nature and extent of contamination on the Site? • Does the contamination, if identified, pose an unacceptable risk to human health and the environment in the context of the proposed land use? • Are there any direct exposure pathways? • Is there a potential risk for offsite migration of contamination?
Step 3: Identify Inputs to the Decision	The following inputs to the decision are: • What media should be assessed? Soil, sediment, soil gas, gas, groundwater, surface water? • Is systematic or judgemental sampling suitable for the project objectives? • Do the number of samples analysed for each chemical of concern provide an adequate dataset to complete a statistical appraisal? • Does the data adequately represent the conditions on-site or will findings from the assessment lead into additional assessments which require more rigorous sampling patterns? The information inputs required to assess compliance within the NSW EPA (2017) Contaminated Land Guidelines include: • Quality Assurance/ Quality Control (QA/QC) documentation and review of data quality indicators (DQIs). • Data to be collected by Tetra Tech including field observations and laboratory analytical results. • Assessment criteria outlined in this document (see Section 6). • Environmental variables to be measured. • Concentrations of chemicals of concern within soil and surface water at the Site. Media to be sampled and monitored: • Fill materials. • Natural soil material.
Step 4: Define the Boundaries of the Study	The Site boundary occupies approximately 1.38 ha. The assessment boundary and sample locations are shown in Figure 3 of Appendix A:. The vertical site boundary is dependent on the depth of fill, natural soil and vertical extent of any field observed odours/ soil staining at each of the proposed sample locations. Soil boring has been limited to 1.5 mBGL.
Step 5: Develop the Analytic Approach	The decision rule for soil for each chemical/ layer to assess the suitability of the Site will be as follows: • QA/QC assessment and DQIs indicate that the data is usable. • Where contaminant concentrations for each sample are below the adopted investigation levels, then no further assessment/ remediation is required with respect to that chemical, media or area.

	• Where contaminant concentrations are reported above the adopted investigation levels, further investigation and/or risk assessment may be required. If identified contamination poses an unacceptable risk to human health and/or the environment, then remediation and/or implementation of appropriate controls would be required to reduce the risk to acceptable levels.
Step 6: Specify Performance or Acceptance Criteria	There are two types of decision errors: • Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation. • Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction. These errors may lead the decision maker to make the following errors: 1. Deciding that the Site is not contaminated and, therefore the Site is suitable for redevelopment when it is not. 2. Deciding that the Site is contaminated and, therefore, the Site is not suitable for redevelopment when it is. The consequences of a type 2 error are less than a type 1 error and therefore we propose a greater limit on the type 2 error (approximately 80% probability). An assessment will be made as to the likelihood of a decision error being made based on the results of a QA/QC assessment and the closeness of the data to the assessment criteria. Additionally, statistical methods may be used, where applicable. The null hypothesis for this study is: • Contaminant concentrations at the Site are above the adopted investigation screening levels.
Step 7: Develop the Plan for Obtaining Data	Based on the previous Steps 1 to 6 of the DQO process, the optimal design for obtaining the required data is presented in the previous sections (i.e. proposed field and laboratory program).

5. SAMPLING AND ANALYSIS PLAN

The sampling and analysis plan was developed with reference to the *NSW EPA (2020) Consultants Reporting on Contaminated Land Guidelines*, relevant sections in Schedule B2 of the National Environment Protection Council (NEPC) 2013 National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013) (ASC NEPM 2013), site observations, information from the desktop review and the preliminary CSM presented in Section 9. Sample locations for soil are provided in Figure 3 of Appendix A. The sampling and laboratory analysis plan of works executed as part of this PSI together with the sampling rationale, is presented in Table 5.1.

Table 5.1: Sampling and Analysis Plan

Task	Method
Service Location	Before-You-Dig-Australia (BYDA) service plans for the Site and nearby surrounds (<500m) and a service locator's report provided by the Client were reviewed prior to commencement of intrusive investigation works. Investigation locations were cleared by a licensed and experienced underground service clearance sub-contractor using an electromagnetic detector.
SOIL	
Soil Sampling Rationale	The Site comprised mostly a grassed lawn and car parking lot, with structures including an old incinerator/ workshop and an above-ground storage tank. The mode of contamination for any on-site sources is anticipated to be top down and potential impacts to surface soils on-site (<1.0 m depth) may be present from imported fill, surface water runoff and anthropogenic materials (e.g. asbestos) if present. NSW EPA *Contaminated Land Guidelines: Sampling design part 1 - Application (*2022) recommend 25 sampling locations to characterise a 1.38 ha site using a systematic sampling layout. As this was a preliminary site investigation, the reduced sampling density of 20 borehole locations as set out in the HI24036 RFT was considered appropriate. The soil boring investigation depth was limited to 1.5 mBGL, 1 m into natural soils or until refusal based on the anticipated top-down contamination exposure route, targeting shallow fill. Soil sample locations are presented on Figure 3 of Appendix A:.
Borehole Advancement	Twenty boreholes (BH01 – BH20) were advanced across the footprint of the Site following a systematic sampling pattern. Nineteen of the boreholes were advanced using a mini-loader with a 150 mm solid-flight auger attachment, to a maximum depth of 1.5 mBGL, until the maximum depth of fill (if beyond 1 mBGL) or until refusal. One borehole was advanced using a hand auger as a non-destructive boring method, due to the underground service locator not being able to get a clear signal to confirm clearance of underground services. The auger was advanced in 0.2 m increments to the targeted depths for sampling, to prevent vertically mixing and thus cross-contamination, to the target borehole depths. Soil cuttings were removed from the auger between borehole locations.
Soil Sampling	Soil samples were collected in accordance with Tetra Tech's Standard Operating Procedures (SOP). Soil samples were collected directly from the auger into laboratory-supplied Teflon-lined lid glass jars with zero headspace and ziplock bags (500 g for asbestos). Soil samples were immediately placed in an ice-chilled storage container during field work and subsequent transport to the selected laboratory (Eurofins Environment Testing Australia Pty Ltd (Eurofins)). Samples were collected to assess the potential presence of contamination from fill and natural material. Soil samples were collected at specific intervals within the soil profile, including: • One from fill (0.0-0.2 mBGL). • One from half a metre depth (0.5-0.7 mBGL).

Task	Method
	• One in the natural material. • On the basis of field observations, evidence of staining, chemical odours wastes or black slag material etc. • At changes in the strata targeting fill and natural material.
Soil Logging	Boreholes were logged by suitably qualified and experienced Tetra Tech environmental scientist in accordance with Tetra Tech's SOPs, which are consistent with AS1726:2017. The presence or absence of anthropogenic material and indicators of contamination (i.e. odours or staining) were included in the bore logs, which are presented in Appendix H:.
Soil Screening	Soil samples were screened in the field for the presence of ionisable VOCs using a PID fitted with a 10.6eV lamp. The PID was bump tested at the start of each day of fieldworks using a 100-ppm isobutylene canister and in fresh air. PID measurements were taken by placing the sample of soil into a dedicated zip-lock bag, sealing it and after about one minute, perforating the bag with the PID with the highest measurement recorded after 60 seconds. Headspace screening results were recorded on bore log sheets, which are presented in Appendix H: together with the fieldnotes, presented in Appendix I:.
Laboratory Analysis – Soil	Soil samples were scheduled for analysis as follows: • 20 samples from the shallow surface/near surface, for: • Total recoverable hydrocarbons (TRH). • Benzene, toluene, ethylbenzene and xylenes (BTEX). • Polycyclic aromatic hydrocarbons (PAHs). • Metals (arsenic, cadmium, chromium, copper, lead, nickel and zinc). • Polychlorinated biphenyls (PCBs). • Organochlorine pesticides (OCPs) and organophosphate pesticides (OPPs). • Asbestos (500 g). • 20 deeper fill/natural samples for: • metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc). • PAHs. • TRH. • BTEX. • Six selected fill/natural soil samples will be analysed for: pH; cation exchange capacity (CEC) and clay content (%). • Five selected fibre cement fragments, if found on or in soil, will to be analysed for asbestos. • Four TCLP leachability analysis for PAHs and selected metals.
Quality Assurance/Quality Control	
Sample Storage and Handling	Sample storage, handling and transport was in accordance with Tetra Tech's SOPs. The samples were placed into ice-chilled coolers and dispatched to NATA accredited laboratories for analysis under Chain of Custody (CoC) documentation.
Decontamination of Sampling Equipment	Re-usable sampling equipment comprised the auger on the mini loader. It was not considered practical to wash the auger between each sampling point. Care was taken to not collect soil directly in contact with the auger, to avoid cross-contamination. The auger was brushed off between each borehole location.
Cross-contamination Management	Dedicated nitrile gloves were used for each sample collected. The auger was brushed off between each borehole location.
QA/QC Samples	To measure the accuracy and precision of the data generated by the procedures for this assessment, Tetra Tech collected the following quality assurance/quality control (QA/QC) samples: • **Intra-laboratory duplicate** – One duplicate QA/QC sample was collected per

Task	Method
	twenty primary samples (soil) collected. • **Inter-laboratory triplicate** – One triplicate QA/QC sample was collected per twenty primary samples (soil) collected. • **Trip blank** – Two trip blank samples were included for within each batch of samples submitted to the laboratory for analysis. • **Trip spike** – Two trip spike samples were included within each batch of samples submitted to the laboratory for analysis.

TRH – Total Recoverable Hydrocarbons, BTEX – Benzene, Toluene, Ethylbenzene, Xylenes, PAH-Polycyclic Aromatic Hydrocarbons Metals - aluminium, arsenic, barium, cadmium, chromium, cobalt, copper, lead, manganese, mercury, nickel, selenium, zinc

The sample locations and testing analytical suites that formed part of this PSI were intended to act as a preliminary screening tool for the Site.

6. ASSESSMENT CRITERIA (SOIL)

Schedule B1 of the ASC NEPM (2013) provides health and environmental values appropriate for the assessment of land contamination, based on selected land use settings. Health-based criteria has been developed for generic exposure settings, including residential, recreational, and commercial/industrial. Ecological criteria have been devised for three generic exposure settings, including national parks and areas with high ecological value, urban residential and public open space and commercial/industrial.

For a Tier 1 assessment, as is the case for this PSI, the results should meet the following criteria:

- The standard deviation of the results should be less than 50% of the relevant investigation or screening level.
- No single value should exceed 250% of the relevant investigation or screening level.

Ecological criteria for benzo(a)pyrene have been adopted from *The Canadian Council of Ministers of the Environment Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons* (CCME, 2010).

Tetra Tech understands that the Site will be redeveloped as an extension of the current Cessnock Hospital, as such, the applicable land use for assessing land contamination conditions is commercial/ industrial. The assessment criteria adopted the Site is presented in the following sections.

6.1.1 Human Health Criteria

Health Investigation Levels (HILs) are applicable for assessing human health risk via relevant exposure pathways. HILs have been developed for a broad range of metals and organic substances. These are generic to all soil types and apply generally to a depth of up to 3 metres below the soil surface.

Health screening levels (HSLs) have been developed for selected petroleum compounds and fractions and are applicable to assessing human health risk via inhalation after vapour intrusion into indoor air and direct contact with soil and groundwater. HSLs depend on general soil type (sand, silt and clay), building configurations and land use scenarios, with sand being the most conservative of the criteria followed by silt then clay.

HSLs for direct contact and Intrusive Maintenance Worker (Shallow Trench) were adopted from CRC CARE 2011 *Technical Report 10, Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater Part 1: Technical Development Document* (CRC CARE, 2011).

As the Site is proposed to be used for continued commercial/ industrial land use, HIL/HSL D (commercial/industrial) criteria has been adopted to assess the soil analytical results against.

The adopted HILs and HSLs for COPCs are summarised in Table 6.1 and Table 6.2. As a conservative measure, a coarse-grained sandy soil type has been assumed to be present at the Site.

Table 6.1:ASC NEPM (2013) Health Investigation Levels (HIL D - commercial/industrial)

Chemical	HIL – D Commercial/ Industrial (mg/kg)[1]
Aluminium	-
Arsenic	3,000
Barium	-
Cadmium	900
Chromium (VI)	3,600
Copper	240,000
Lead	1,500
Manganese	60,000
Mercury (inorganic)	730
Nickel	6,000

Chemical	HIL – D Commercial/ Industrial (mg/kg)[1]
Selenium	10,000
Zinc	400,000
Carcinogenic PAHs, as Benzo(a)pyrene TEQ [2]	40
Total PAHs	4,000
Phenol	240,000
Pentachlorophenol	660
Cresols	25,000

1. *Table 1A(1) – Health investigation levels for soil contaminants - commercial/industrial land use (ASC NEPM (2013)).*
2. *TEQ = Toxicity Equivalence*

Table 6.2: ASC NEPM (2013) Health Screening Levels (HSL D - commercial/industrial)

Chemical	HSL D – Commercial/ Industrial (Sand) (mg/kg)[1]	HSL-D Direct Contact[2] (mg/kg)	HSL – Intrusive Maintenance Worker (Shallow Trench) (Sand)[3] (mg/kg)
	0m to <1m		0m to <2m
Benzene	3	430	77
Toluene	NL	99,000	NL
Ethylbenzene	NL	27,000	NL
Xylenes	230	81,000	NL
Naphthalene	NL	11,000	NL
F1 (TRH C_6-C_{10} – BTEX)	260	-	NL
TRH C_6-C_{10}	-	26,000	-
F2 (TRH >C_{10}-C_{16} – Naphthalene)	NL	-	NL
TRH C_{10}-C_{16}	-	20,000	-
TRH C_{16}-C_{34}	-	27,000	-
TRH C_{34}-C_{40}	-	38,000	-

NL: non-limiting (i.e. contaminant is not considered to pose a risk to human health through vapour inhalation regardless of concentration). Soil type is assumed to be sandy as the most conservative option.
1. *Table 1A(3) – Soil Health Screening Levels for Vapour Intrusion (ASC NEPM(2013)).*
2. *Table A4 - Soil Health Screening levels for Direct Contact for commercial/ industrial (CRC CARE, 2011).*
3. *Table A3 – Soil Health Screening Levels for Vapour Intrusion (Intrusive Maintenance Worker) (CRC CARE, 2011).*

In accordance with Section 2.9 of Schedule B1 of the NEPM (2013), consideration of Management Limits for petroleum hydrocarbons has been included to assess the potential for accumulation of explosive vapours, the potential risk to buried infrastructure, or the formation of light non-aqueous phase liquid (LNAPL).

A summary of the adopted management limits for this Site is provided in Table 6.3.

Table 6.3: Management Limits for Commercial/ Industrial Land Use

Chemical	Soil Type	Commercial/ Industrial (mg/kg) [1]
F1: TRH C_6-C_{10}	Coarse	700
F2: TRH C_{10}-C_{16}	Coarse	1,000
F3: TRH C_{16}-C_{34}	Coarse	3,500
F4: TRH C_{34}-C_{40}	Coarse	10,000

1. *Table 1 B(7) Management Limits for TPH fractions F1-F4 in soil (ASC NEPM (2013)).*

6.1.1.1 Asbestos

In accordance with Section 4.8 of Schedule B1 of the ASC NEPM (2013), HSLs for asbestos have been included. HSLs for asbestos in soils have been established for three forms of asbestos, which include:

- Asbestos Containing Material (ACM) – material that is '*bound in a matrix such as cement or resin (e.g. asbestos fencing and vinyl tiles). This term is restricted to material that cannot pass a 7 mm x 7 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release*'.
- Fibrous Asbestos (FA) – material that '*comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling)*'.
- Asbestos Fines (AF) – material that '*includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve. (Note that for bonded ACM fragments to pass through a 7 mm x 7 mm sieve implies a substantial degree of damage which increases the potential for fibre release.)*'.

No visible forms of asbestos relating to 'All forms of asbestos' relates to the top 0.1 m of soil.

Table 6.4 presents the criteria for HSLs for asbestos in soils.

Table 6.4: Asbestos in soils HSLs (commercial/industrial)

Form of Asbestos	Health Screening Levels (w/w)
	Commercial/Industrial D (HSL - D)
Bonded ACM*	0.05%
FA and AF*	0.001%
All forms of asbestos	No visible forms of asbestos

*ACM: Asbestos Containing Material, FA: Friable Asbestos, AF: Asbestos Fines; *Not applicable to the CA as the sampling and analysis would not corelate to the HSLs; No visible forms of asbestos related to the top 0.1m of soil.*

The proposed sampling and analytical plan discussed in Table 5.1, would not allow a comparison against HSL criteria for bonded ACM or FA and AF within Table 6.4, as there was insufficient material from the drill cuttings to make up the necessary 10 L to sieve through a 7 mm sieve for sand or to spread out on a colour contrasting surface for clay. Sampling and laboratory testing methodology for the PSI is therefore not in accordance with the ASC NEPM 2013 gravimetric approach, but rather provides an indication on the presence or absence of asbestos in soils.

The presence of detectable asbestos within soils and/ or building material may trigger additional assessment and/or management during redevelopment works, which would be assessed against the above HSLs.

6.1.2 Ecological Criteria

Ecological Investigation Levels (EILs) have been developed for selected metals and organic compounds, for assessing risk to terrestrial ecosystems under residential, open space and commercial/industrial land use scenarios. They apply to the top 2 m of accessible soil, which corresponds to the root zone and habitation zone of many species.

Site-specific EILs for heavy metals were derived through analysis of soil pH, CEC, iron content, clay content and organic carbon content.

Ecological screening levels (ESLs) have been developed for selected petroleum compounds and fractions and are applicable for assessing risk to terrestrial ecosystems. The ESLs broadly apply to coarse and fine-grained soils under various land use scenarios and are applicable to the top 2 m of accessible soil.

The adopted EILs and ESLs for a commercial/ industrial land use are based on a continued commercial/ industrial land use and are summarised in Table 6.5 and Table 6.6, respectively. The site-specific EILs for fill and natural soil horizons were calculated separately, value calculations have been included as Appendix J:.

Table 6.5: Ecological Investigation Levels (Commercial/ Industrial)

Chemical	EIL – Commercial/ Industrial (mg/kg)[1]
Arsenic	160
Chromium	430[3]
Copper	150[3]
Lead	1,800[2]
Nickel	80[3]
Zinc	480[3]
Naphthalene	370

1. *Table 1B(5) Generic EILs for aged As, fresh DDT and fresh naphthalene in soils irrespective of their physicochemical properties (ASC NEPM (2013)).*
2. *Table 1B(4) Generic added contaminant limits for lead in soils irrespective of their physicochemical properties (NEPM (2013)).*
3. *Site-specific EILs (ASC NEPM (2013)).*

Table 6.6: Ecological Screening Levels (Commercial/ Industrial)

Chemical	ESL – Commercial/ Industrial (mg/kg)[1]
TRH F1 C_6 – C_{10}	215
TRH F2 >C_{10} – C_{16}	170
TRH F3 >C_{16} – C_{34}	1,700
TRH F4 > >C_{34} – C_{40}	3,300
Benzene	75
Toluene	135
Ethylbenzene	165
Xylene	180
Benzo(a)pyrene	72[2]

1. *ESLs for TPH fractions F1 – F4, BTEX and benzo(a)pyrene in soil (ASC NEPM (2013)).*
2. *Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons (CCME, 2010))*

6.1.3 In-situ Waste Classification Criteria

Soil analytical results will be assessed against the criteria presented in the NSW EPA Waste Classification Guidelines, by answering the following 6 questions:

1. Is the Waste Special Waste?
2. Is the Waste Liquid Waste?
3. Is the Waste Pre-Classified?
4. Does the Waste Possess Hazardous Characteristics?
5. What is the Chemical Characterisation of the Soil Material
6. Is the Waste Putrescible or Non-Putrescible?

The chemical characterisation of the soil material is assessed against the criteria summarised in Table 6.7.

Table 6.7 Waste Classification CT1 criteria

Chemical	Maximum values of specific contaminant concentration (SCC) for classification without TCLP	
	General Solid Waste CT1 (mg/kg)	Restricted solid waste CT2 (mg/kg)
Arsenic	100	400
Benzene	10	40
Benzo(a)pyrene	0.8	3.2
Cadmium	20	80
Chlorpyrifos	4	16
Chromium (VI)	100	400
Endosulfan	60	240
Ethylbenzene	600	2,400
Lead	100	400
Mercury	4	16
Moderately harmful pesticides6 (total)	250	1,000
Nickel	40	160
C6–C9 petroleum hydrocarbons	650	2,600
C10–C36 petroleum hydrocarbons	10,000	40,000
Phenol (non-halogenated)	288	1,152
Polychlorinated biphenyls9	<50	<50
Polycyclic aromatic hydrocarbons (total)	200	800
Toluene	288	1,152
Xylenes (total)	1,000	4,000

CT = Contaminant threshold

7. DATA VALIDATION

7.1 FIELD QUALITY CONTROL MEASURES

Field quality control measures implemented for this project included:

- Sampling was performed by qualified Tetra Tech environmental professionals in accordance with Tetra Tech's SOPs which are based on industry accepted protocols for environmental sampling and are consistent with Schedule B2 of the ASC NEPM.
- Analysis of trip blank samples; results were below the laboratory limit of reporting on analytes tested. See Table 4 of Appendix K: for the trip spike and trip blank results.
- Collection and analysis of intra-laboratory (duplicate) and inter-laboratory (triplicate) samples. Both the primary sample and duplicates measured within the acceptable RPDs on analytes tested. See Table 5 of Appendix K: for the RPDs.
- Analysis of trip spike samples; recovery percentage differences were within acceptable limits.
- Pre-calibrated equipment as used. See Appendix L: for the calibration certificate.

7.2 LABORATORY QUALITY ASSURANCE/ QUALITY CONTROL

The selected laboratories performed internal QA/QC procedures which included laboratory duplicates, method blanks, laboratory control samples and surrogate spikes. The laboratory certificates are included in Appendix L:.

Laboratory QC analytical results are summarised below:

- Analysis of samples was undertaken by NATA accredited laboratories.
- All primary samples were extracted and analysed within recommended holding times.
- No target analytes were detected in any of the method blanks.
- RPDs for the internal laboratory duplicate samples were mostly within the acceptable range, except for several PAHs and metals. See the laboratory certificates in Appendix M: for further details.
- Percentage recovery results for laboratory control samples were within the acceptable range.
- Percentage recovery results for surrogates were within the acceptable range.

7.3 DATA QUALITY ASSESSMENT

Tetra Tech considers that the data presented is acceptable and meets the DQOs and that the relevant DQI's were complied with.

Tetra Tech considers that the field and laboratory data assessed is reliable in consideration of the following:

- Critical sample locations were sampled.
- SOPs were appropriate and generally complied with.
- Fieldworks, and sampling was completed by an experienced Environmental Engineer.
- Sampling procedures were appropriate, complied with and completed consistently during the assessment works.
- Sampling was completed in optimal weather.
- RPDs were mostly acceptable, except for the intra-laboratory duplicate RPDs for arsenic, copper and lead for BH17_0.5-0.7 / QC3 and lead for BH17_0.5-0.7 / QC4. This may be due to the heterogeneous distribution that is typical of metals.

- The laboratory analysed samples as required.
- Sample documentation was completed.
- Appropriate laboratory testing methods and LORs were implemented.
- The samples for contamination assessment were collected on 12, 13 and 14 June 2024 (MW05) and were submitted to one NATA accredited laboratory for analysis.
- The laboratory undertook the analysis of laboratory prepared duplicates.
- Laboratory QA/QC procedure implemented and considered appropriate.

Based on the QA/QC assessment completed, the field and laboratory QA/QC data are considered to be usable and representative of the sampling locations at the time of sampling and are suitable for the purpose of the assessment.

8. RESULTS AND DISCUSSION

Field notes are presented in Appendix I:. Tabulated soil analytical results for human health and ecological assessment are presented in Table 1 in Appendix J:. The values used for the EIL calculation are presented in Table 2 in Appendix J:. The in-situ waste classification assessment results are presented in Table 3 of Appendix J:.

8.1 SOIL RESULTS

8.1.1 Subsurface lithology

A generalisation of the subsurface lithology encountered during the intrusive investigation works is presented in Table 8.1.

Table 8.1: Observed Subsurface Lithology

Depth	Description
0 – 0.1	Topsoil (in grassed areas) Silty CLAY, Asphalt (in sealed areas)
0.1 – 1.5	Fill (Silty Sand to Silty CLAY, with gravels)
0.5 – 1.5	Residual Soil (CLAY, high plasticity)

8.1.2 Soil Analytical Results and Discussion

Soil analytical results for the samples collected on 12, 13 and 14 June 2024 are presented in Table 1, Appendix J:. Laboratory certificates have been included as Appendix M:.

Key results were as follows:

- Asbestos was reported for two fragments, collected from boreholes BH06 (sample ID BH06_0.5-0.7-F1) and BH09 (sample ID BH09_0.5-0.7-F) at a depth of 0.5-0.7 mBGL. The material in BH06 at 0.5 mBGL comprised fill consisting of gravelly clay, and included slag material, plastic piping too before and was located within a fill mound. The material in BH09 at 0.5 mBGL comprised fill consisting of silty clay; rock and terracotta pieces were also found within this borehole near the surface (0-0-0.2 mBGL).
- TRH was detected in samples collected from within the carpark at the Site. Sample BH13_0.0-0.2 collected from BH13 at a depth of 0.0-0.2 mBGL had a TRH F3 (C_{16} - C_{34}) concentration reported on 3,000 mg/kg. Sample BH15_1.0-1.2 collected from BH15 at a depth of 1.0-1.2 mBGL had TRH F2 C_{10} - C_{16} (minus Naphthalene) had a reported concentration of 350 mg/kg. These two reported concentrations are above the ASC NEPM (2013) ESLs; however, the individual value did not exceed 250% of the relevant ESL and thus does not exceed the adopted ecological criteria.
- Benzo(a)pyrene TEQ was also reported for sample BH13_0.0-0.2 at 92 mg/kg; this is above the HIL (40 mg/kg) however it is below 250% of the HIL and therefore in the context of the dataset, this is considered to be a localised hotspot possibly attributed to asphalt from the carpark.

8.1.3 In Situ Waste Classification

The six-step questionnaire for the classification of wastes has been answered as follows:

1. Is the Waste Special Waste? No
2. Is the Waste Liquid Waste? No

3. Is the Waste Pre-Classified? No
4. Does the Waste Possess Hazardous Characteristics? No
5. What is the Chemical Characterisation of the Soil Material. See Section 8.1.3.1.
6. Is the Waste Putrescible or Non-Putrescible? Non-Putrescible

8.1.3.1 Chemical Characterisation of the Soil Material – Waste Classification

The Tier one (CT1) criteria for the classification of general solid waste (non-putrescible) was exceeded for the following samples and contaminants:

- Benzo(a) pyrene concentrations for samples BH02_0.0-0.2, BH03_0.0-0.2, BH09_0.0-0.2, BH13_0.0-0.2, BH13_1.0-1.2, BH15_0.0-0.2 and BH15_1.0-1.2.
- PAHs (Sum of total) for sample BH13_0.0-0.2.
- Lead for samples BH09_0.0-0.2, BH13_0.0-0.2 and BH07_0.5-0.7
- Nickel for samples BH07_0.5-0.7, BH17_0.0-0.2, BH18_0.0-0.2 and BH19_0.0-0.2

The highest reported concentrations for benzo(a) pyrene, lead and nickel were then analysed for leachability (Toxicity Characteristic Leaching Procedure (TCLP) analysis) to assess the samples against the Tier 2 criteria (SCC1 and TCLP1). The TCLP1 and SCC1 criteria were met.

Overall, the area has been assessed as general solid waste (non-putrescible) with the locations of BH06 and BH09 being classed as general solid waste (non-putrescible) – asbestos.

9. PRELIMINARY CONCEPTUAL SITE MODEL

9.1 SOURCE-PATHWAY-RECEPTOR ASSESSMENT

A summary of the potential contamination sources, receptors and plausible linkages between is presented in Table 9.1.

Table 9.1: Potential Sources of Contamination and Associated Contaminants of Concern

Primary Sources	Media	COPCs	Pathway	Receptor	Likelihood of Source-Pathway-Receptor Linkage	Comments	Contamination Risk
Uncontrolled / imported fill (including incinerator waste disposal)	Soil	TRH BTEX PAHs Metals PCBs OCPs OPPs Asbestos	Ingestion of, inhalation of and dermal contact with impacted soils. Ingestion of and dermal contact with impacted surface water runoff.	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	Evidence of fill was observed at the surface (see borelogs in Appendix H:). However, the soil analytical results were below the adopted health assessment criteria. The risk of contaminant exposure to maintenance and excavation workers on-site is assessed as low.	Low
				Current and future Site users (commercial/industrial)	Potentially incomplete	Soil analytical results were below the adopted health assessment criteria for a commercial/ industrial land use. The risk of contaminant exposure to both current and future Site users in a commercial/ industrial setting is assessed as low.	Low

				Environmental – on-site flora and fauna, including transitory wildlife and soil microbiota	Potentially incomplete	The soil analytical results in the vicinity of the line of trees along the northern Site boundary (BH10 and BH12) were below the adopted ecological assessment criteria. No obvious signs of vegetation stress or die off were recorded.	Low
				Environmental – ecology of the ephemeral creek to the north of the Site & downgradient wetlands	Potentially incomplete	The soil analytical results in the vicinity of the line of trees along the northern Site boundary (BH10 and BH12) were below the adopted ecological assessment criteria. Surface water runoff towards the ephemeral creek to the north of the Site and downgradient wetlands are not anticipated to be impacted based on the soil analytical results reported in this PSI.	Low
		TRH BTEX	Inhalation of vapours that accumulate in excavations or service trenches.	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples do not indicate a risk of vapour accumulation in excavations or shallow trenches. It is considered unlikely based on the current results for vapour accumulation to occur in trenches or excavations.	Low
				Site users (commercial/industrial)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples do not indicate a risk of vapour intrusion into on-site buildings (existing and/or proposed).	Low
	Groundwater	TRH BTEX	Ingestion of, and dermal contact with	Maintenance workers and excavation workers on-site	Potentially incomplete	Groundwater was not encountered within boreholes, to a minimum depth of 1.5 mBGL. If excavation	Low

		heavy metals PAHs phenols PCBs OCPs OPPs	impacted groundwater (perched or regional)	(shallow trench)		works are to be advanced beyond this depth, workers may come into contact with groundwater. If groundwater contamination is present onsite, deeper excavation workers could potentially be exposed to COPCs (if present).	
				Site users (commercial/industrial)	Potentially incomplete	There were no registered groundwater abstraction bores identified onsite. As such there were no plausible linkage identified between Site users and groundwater at or beneath the Site.	Low
				Environmental – on-site flora and fauna, including transitory wildlife and soil microbiota	Potentially incomplete	On-site flora that could potentially be impacted by groundwater, if contaminated, would be the line of trees in the northern portion of the Site. No obvious signs of stress or die off were observed during the PSI field works. In addition, the soil analytical results in the vicinity of the trees (BH10 and BH12) were below the adopted ecological assessment criteria.	Low
				Environmental – ecology of the ephemeral creek to the north of the Site & downgradient wetlands	Potentially incomplete	Based on the top-down contamination path and the soil analytical results, a risk of contamination to groundwater and subsequent discharge to the ephemeral creek and downgradient wetlands is considered low likelihood.	Low
Spills / leaks and asbestos in the vicinity of the former incinerator/ workshop buildings	Soil	TRH PAHs Asbestos	Ingestion of, inhalation of and dermal contact with impacted soils. Ingestion of and dermal contact with impacted surface water	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	TRH and PAHs were reported in sampled collected within the vicinity of the former incinerator/ workshop buildings. In addition, anecdotal evidence was provided of the burial of asbestos waste beneath these buildings. Maintenance workers and excavation workers in the vicinity	Low to moderate

			runoff.			of these structures have the potential to be exposed to these contaminants, if present in larger quantities within the footprint of the buildings and nearby surrounds. However, the current soil analytical results indicate a low risk based on the reported concentrations.	
				Site users (commercial/industrial)	Potentially incomplete	Based on the current conditions encountered during the site investigation and as part of the reported soil analytical results, the risk to current and future Site users is considered to be low.	Low
				Environmental – on-site flora and fauna, including transitory wildlife and soil microbiota	Potentially incomplete	BH13 and BH15 had individual concentrations above the ESLs for TRH. However, these areas were sealed and so no ecological receptors at this location are anticipated to be present.	Low
			Ingestion of, inhalation of and dermal contact with impacted surface water runoff.	Environmental – ecology of the ephemeral creek to the north of the Site	Potentially incomplete	Based on the reported concentrations for surface fill, particularly along the northern boundary of the Site, a low risk is considered to be present to the receptor of ecology of the ephemeral creek to the north of the Site.	
	Groundwater		Ingestion of, and dermal contact with impacted groundwater (perched or regional)	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	Groundwater was not encountered within boreholes, to a minimum depth of 1.5 mBGL. If excavation works are to be advanced beyond this depth, workers may come into contact with groundwater. If groundwater contamination is present onsite, deeper excavation workers could potentially be exposed to COPCs (if present).	Low
				Site users (commercial/industrial)	Potentially incomplete	There were no registered groundwater abstraction bores identified onsite. As such there	Low

						were no plausible linkage identified between Site users and groundwater at or beneath the Site. Based on the top-down contamination path and the soil results of this PSI, a risk of contamination to groundwater is considered low likelihood.	
Yard maintenance shed (hoist)	Soil	TRH BTEX	Ingestion of, inhalation of and dermal contact with impacted soils.	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples in the vicinity of the yard maintenance shed (BH06 and BH07) do not indicate an unacceptable risk to maintenance workers and excavation workers on-site.	Low
				Site users (commercial/industrial)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples in the vicinity of the yard maintenance shed (BH06 and BH07) do not indicate an unacceptable risk to current and future site users based on the ongoing use of the Site under a commercial/industrial land use.	Low
	Groundwater		Ingestion of, and dermal contact with impacted groundwater	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	Groundwater was not encountered within boreholes, to a minimum depth of 1.5 mBGL. If excavation works are to be advanced beyond this depth, workers may come into contact with groundwater. If groundwater contamination is present onsite, deeper excavation workers could potentially be exposed to COPCs (if present).	Low
				Site users (commercial/industrial)	Potentially incomplete	There were no registered groundwater abstraction bores identified onsite. As such there were no plausible linkage	Low

						identified between Site users and groundwater at or beneath the Site.	
				Environmental – ecology of the on-site northern tree line zoned as sensitive and the connecting ephemeral creek to the north of the Site	Potentially incomplete	The hoist in the yard maintenance shed may act as a historical source of contamination to groundwater depending on how waste oils/lubricants were disposed of. Potential groundwater impacts from historical hoist operations cannot be ruled out.	Moderate
Above-ground storage tank (AST) (fuel storage)	Soil	TRH BTEX	Ingestion of, inhalation of and dermal contact with impacted soils.	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples in the vicinity of the above-ground storage tank holding fuel (BH14) do not indicate an unacceptable risk to maintenance workers and excavation workers on-site.	Low
				Site users (commercial/industrial)	Potentially incomplete	The concentrations of petroleum hydrocarbons (as TPH/TRH) that were reported in the analysed soil samples in the vicinity of the above-ground storage tank holding fuel (BH14) do not indicate an unacceptable risk of vapour intrusion into on-site buildings (existing and/or proposed) and to site users in a commercial/ industrial and use setting.	Low
	Groundwater		Ingestion of, and dermal contact with impacted groundwater (perched or regional)	Maintenance workers and excavation workers on-site (shallow trench)	Potentially incomplete	Groundwater was not encountered within boreholes, to a minimum depth of 1.5 mBGL. If excavation works are to be advanced beyond this depth, workers may come into contact with groundwater. If groundwater contamination is present onsite, deeper excavation workers could potentially be exposed to COPCs (if present).	Low

				Site users (commercial/industrial)	Potentially incomplete	There were no registered groundwater abstraction bores identified onsite. As such there were no plausible linkage identified between Site users and groundwater at or beneath the Site. Based on the top-down contamination path and the soil results of this PSI, a risk of contamination to groundwater is considered low likelihood.	Low Low
				Environmental – ecology of the on-site northern tree line zoned as sensitive and the connecting ephemeral creek to the north of the Site	Potentially incomplete	The AST was within a bunded area on sealed hardstand. The deeper sample collected from near the AST (BH14_0.5-0.7) had TRH & BTEX reported as non-detect, indicating impacts to be surficial. Groundwater is therefore considered unlikely to be impacted from the AST. No evidence of spills or leaks was identified during the PSI field works.	Low

Notes: This is a semi-quantitative assessment of the probability of contamination being detected at the Site. Total petroleum hydrocarbons (TPH), Total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAH), heavy metals (arsenic, cadmium, chromium, copper, lead, mercury and zinc).

9.2 DATA GAPS

The following data gaps were identified:

- Due to the limited nature of the soil investigation, the quantity and quality of fill of unknown origin across the Site has been semi-quantified. Uncontrolled fill may contain contaminants.
- Groundwater conditions have not been assessed as part of this PSI and are thus unknown.

10. CONCLUSIONS AND RECOMMENDATIONS

The Site was historically used for residential purposes from 1913 until 1941, and then was developed into part of Cessnock Hospital from 1941 until present. The Site is the subject of a redevelopment of the Cessnock Hospital and the land use, for the purpose of contamination assessment is commercial/industrial.

This PSI was carried out to assess potential sources of contamination at the Site and provide recommendations for further assessment or management, if required. Sources of potential contamination have been identified at the Site as uncontrolled/ imported fill (including waste buried from the incinerator) across the grassed areas and carpark, potential leaks/spills and buried asbestos waste in the vicinity to the former incinerator/ workshop buildings and potential leaks/spills from the above-ground storage tank for fuel and yard maintenance shed (hoist).

Asbestos fragments were found within a fill mound at BH06 and within fill at BH09 at a depth of 0.5-0.7 mBGL. Waste generated from the stockpiling of this material would need to be managed as special waste-asbestos. The remainder of the Site has been preliminarily in-situ classified as general solid waste (non-putrescible).

The TRH concentrations reported for sample BH13_0.0-0.2 (as TRH F3 (C_{16} - C_{34})) and sample BH15_1.0-1.2 (as TRH F2 C_{10} - C_{16} (minus Naphthalene)) were above the ESL; however, they were below adopted ecological criteria due to being less than 250% of the ESL. BH13 and BH15 were also within paved areas, with no vegetation or identified ecological receptors.

The risk of contamination to human health for the current and ongoing land uses has been assessed as low to moderate based on the findings of this PSI (including the limited soil investigation). Based on preliminary CSM, exposure pathways to ecological receptors are potentially incomplete. The risk of contamination to ecological receptors, for both the current and proposed land uses, was assessed as low to moderate.

Tetra Tech recommends a Detailed Site Investigation (DSI) to further assess the suspected asbestos, the reported PAH and petroleum hydrocarbon (as TRH) impacts in the vicinity of the incinerator and workshop buildings at BH13 and BH15 and the hoist (potential TRH/BTEXN impacts).

This DSI may be carried out during the Site redevelopment, whereby access to the footprint of the incinerator and workshop buildings may be gained (post-demolition). This would provide confidence that a thorough assessment of site contamination has been undertaken as per EPA guidance and include closing out the identified data gaps pertaining to chemical characterisation of soils / asbestos on-site.

Tetra Tech recommends that the DSI be carried out by an experienced and certified contaminated land consultant, to assess the potential presence of soil contamination at the Site.

Based on the results, the likelihood of significant impacts to groundwater (perched and regional), if present, would be unlikely and not be anticipated to pose an unacceptable risk to identified groundwater receptors.

On the basis of these findings, Tetra Tech concludes that the Site can be made suitable for the proposed redevelopment by undertaking a DSI and by removal of any asbestos impacted fill/ soil during redevelopment.

11. REFERENCES

Cessnock 1:100 000 Geological Map (Sheet Code 9132, 1976)

Soil Landscape https://www.environment.nsw.gov.au/eSpade2WebApp; accessed 26 June 2024

acid sulfate soil risk mapping https://www.environment.nsw.gov.au/eSpade2WebApp; accessed 26 June 2024

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Ecology https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap on 26 June 2024

NSW EPA List of NSW contaminated sites notified to EPA https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/list-of-notified-sites accessed on 27 June 2024

NSW EPA Contaminated Land Record of notices https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/record-of-notices accessed on 27 June 2024

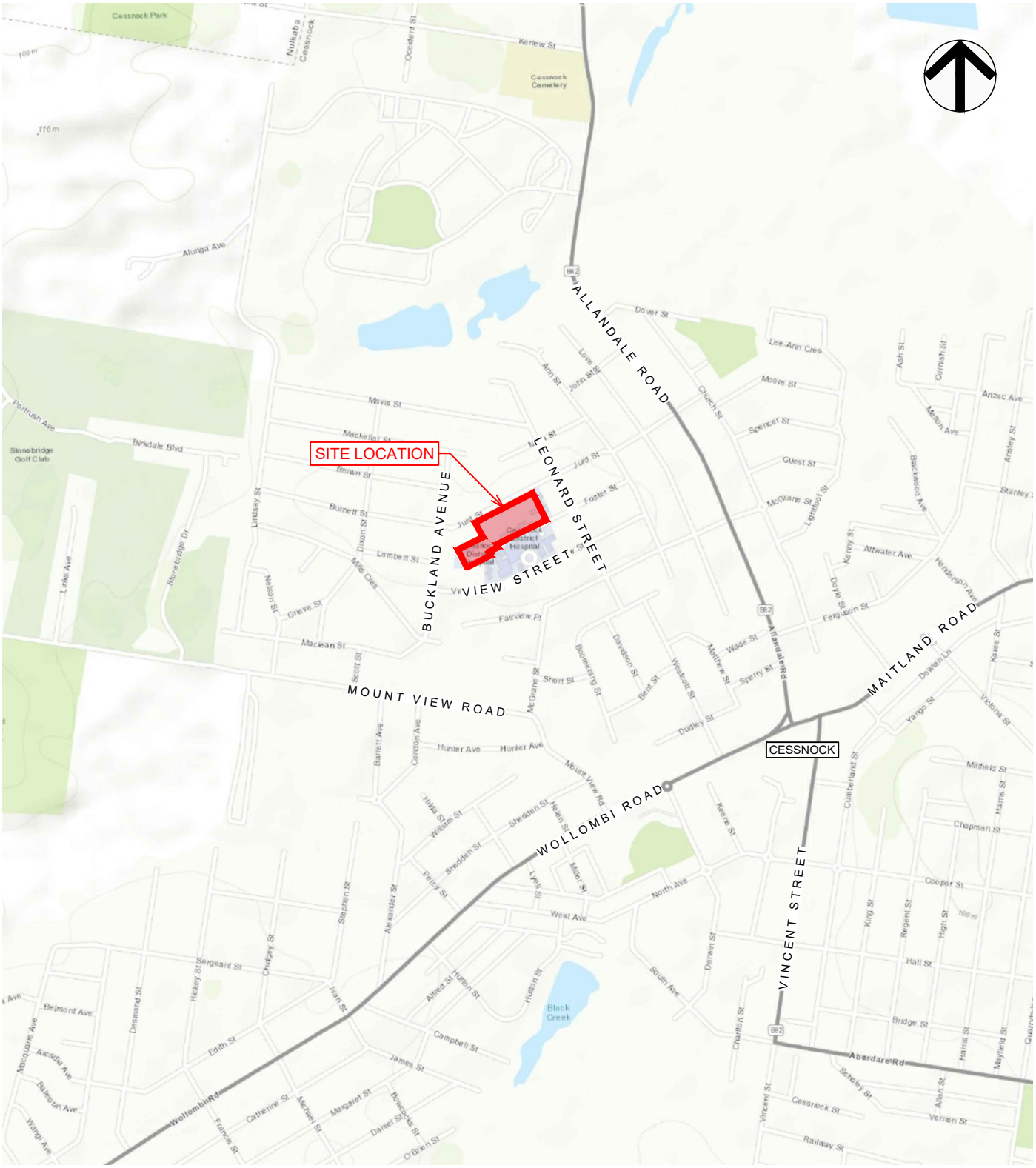
NSW EPA POEO Act register https://app.epa.nsw.gov.au/prpoeoapp/ accessed on 27 June 2024

NSW EPA PFAS investigation program https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program accessed on 2 July 2024

NSW list of former gasworks sites https://www.epa.nsw.gov.au/your-environment/contaminated-land/other-contamination-issues/former-gasworks-sites accessed on 2 July 2024

Australian Government Geoscience Australia Waste Management Facilities database https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F%2Fservices.ga.gov.au%2Fgis%2Frest%2Fservices%2FWaste_Management_Facilities%2FMapServer&source=sd accessed on 2 July 2024

APPENDIX A: FIGURES



MAP PROJECTION: GDA2020 MGA ZONE 56

200 0 200 400 600 800

Scale (metres) 1:15000

IMAGERY SOURCE: WORLD TOPOGRAPHIC MAP
SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

DRAFT

drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A4

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: SITE LOCATION PLAN

project no: 754-NTLEN347071 | figure no: FIGURE 1 | rev: A

PLOT DATE: 2/7/2024 10:03:48 AM DWG FILE: F:\1. PROJECTS\1. SYDENENV\OTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



PLOT DATE: 2/7/2024 10:28:33 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG

revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

10 0 10 30 50

Scale (metres) 1:1000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

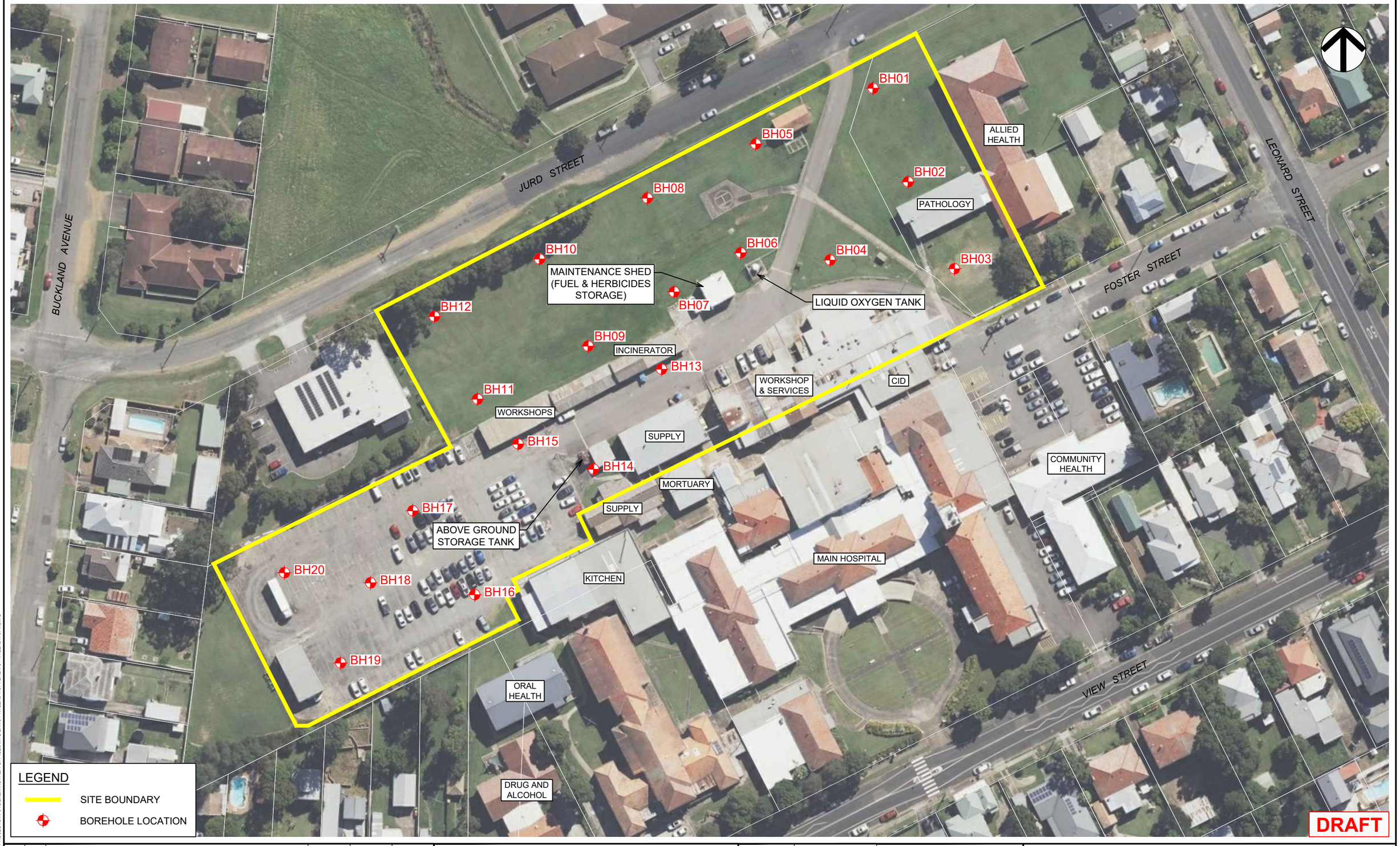
TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: SITE LAYOUT

project no: 754-NTLEN347071 | figure no: FIGURE 2 | rev: A



PLOT DATE: 2/7/2024 10:26:49 AM DWG FILE: F:\1. PROJECTS\1. SYD\ENV\OTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG

revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

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Scale (metres) 1:1000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client:	TURNER TOWNSEND
project:	CESSNOCK HOSPITAL 24 VIEW STREET, CESSNOCK, NSW
title:	SOIL SAMPLING PLAN
project no:	754-NTLEN347071
figure no:	FIGURE 3
rev:	A

APPENDIX B: SAFEWORK NSW HAZARDOUS CHEMICALS ON PREMISES SEARCH

From: Licensing
To: Cadelago, Wendy
Subject: SafeWork NSW: 00989418 –Site Search application – Result not found [thread::6wPOAsXQeAWkO04AOYDDAXw::]
Date: Friday, June 7, 2024 12:20:38 PM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Security Classification: Sensitive Personal
Please do not amend the subject line of this email

Dear Wendy

Re: Site Search for Schedule 11 Hazardous Chemicals on premises Application – Result not found

I refer to your application for a Site Search for Schedule 11 Hazardous Chemicals on premises, received by SafeWork NSW on 20 May 2024 for the following site: 24 View Street, Cessnock NSW 2325.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

If you have any further information or if you have any questions, please use one of the following options, quoting the SafeWork NSW enquiry reference number: 00989418

- Email: licensing@safework.nsw.gov.au
- Phone: 13 10 50

Kind regards

Kim Brearley
Licensing Representative
SafeWork NSW | Better Regulation Division
Department of Customer Service
p- 13 10 50
e- licensing@safework.nsw.gov.au | www.customerservice.nsw.gov.au
Level 3, 32 Mann Street, Gosford, NSW 2250

<!--[if !vml]--> 

We are always looking for ways that we can improve our services. You may be contacted by email in the next few weeks to complete a short survey and provide us with your feedback on what we did well and where we can improve. If you do not wish to participate in our surveys, please email us at:

licensingQA@customerservice.nsw.gov.au and we will ensure that you are not contacted.

thread::6wPOAsXQeAWkO04AOYDDAXw::

APPENDIX C: SECTION 10.7 PLANNING CERTIFICATE

PLANNING CERTIFICATE

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

Tetra Tech Coffey
Unit 4
60 Griffiths Road
LAMBTON NSW 2298

Applicants Reference
Cessnock hospital

CERTIFICATE DETAILS

Certificate Number:	1609
Date of Certificate:	31/05/2024

PROPERTY DETAILS

Address:	View Street CESSNOCK NSW 2325
Title:	LOT: 2 DP: 1173784
Parcel No.:	509221

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

PLANNING CERTIFICATE

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

1. Names of relevant planning instruments and development control plans

(1) The name of each environmental planning instrument and development control plan that applies 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 (Sustainable Buildings) 2022_ relevant to zones _ RU4, RU5, RE1, RE2, E1, E2, E3, E4, MU1, C4, SP1, SP2 & SP3

Chapter 2 _ Standards for residential development _ BASIX

Chapter 3_ Standards for Non-residential development

Chapter 4_ Miscellaneous

State Environmental Planning Policy (Resilience and Hazards) 2021

Chapter 3 _ Hazardous and offensive development

Chapter 4 _ Remediation of land

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

State Environmental Planning Policy (Transport and Infrastructure) 2021

Chapter 2 _ Infrastructure

Chapter 3 _ Educational establishments and child care facilities

State Environmental Planning Policy (Resources and Energy) 2021

Chapter 2 _Mining, petroleum production and extractive industries

State Environmental Planning Policy (Primary Production) 2021

Chapter 2 _ Primary production and rural development

State Environmental Planning Policy (Planning Systems) 2021

Chapter 2 _ State and regional development

Chapter 4 _ Concurrences and consents

State Environmental Planning Policy (Biodiversity and Conservation) 2021

Chapter 4 _ Koala habitat protection 2021

State Environmental Planning Policy (Housing) 2021

State Environmental Planning Policy (Precincts _ Regional) 2021

Chapter 2 _ State significant precincts

The chapters listed above are those that are applicable to the whole LGA. Please note that other chapters of the state environmental planning policies may apply to particular parcels of land in the LGA.

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 name of each proposed environmental planning instruments and draft development control plan, which is or has been subject to community consultation or public exhibition under the Environmental Planning and Assessment Act 1979, that will apply to the carrying out of development on the land and:

(3) 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

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 SEPP _ Housing EIE Amendments _ Exhibition 22 November 2022 to 19 December 2022

DRAFT SEPP _ The Design and Place _ Exhibition 10 December 2021 to 27 February 2022

Draft Planning Proposal for Local Environmental Plan
DRAFT Planning Proposal _ 18-2020-3-1_ Proposal to implement the changes to the Special Purposes(SPx)zones _ Public Exhibition _ 02-02-2023 _ 02-03-2023.

DRAFT Planning Proposal _ 18-2022-2-1_ Proposal to implement the changes to the Comprehensive Rural Zones review. Public Exhibition _ 14-09-2022 _ 2-10-2022

DRAFT Planning Proposal _ Comprehensive LEP Review _ Environment Zones _ Land Use Table _ 18-2023-5-1 _ Public exhibition _ 31-08-2022 _ 26-10-2022 _ PP2021-7357

Draft Planning Proposal _ Cessnock City Council Various Administrative Amendments 2021 _ Public exhibition 30-11-2022 - 18-01-2022

DRAFT Planning Proposal _ Environmental Lands _ 18 2021 6 1 _ Public exhibition _ 31-08-2022 _ 26-10-2022

DRAFT Planning Proposal _ Comprehensive LEP Review _ Amending Rural Zone Land Uses, Local Objectives and Mapping Anomalies _ 18-2022-2-1 _ Public exhibition _ 14-9-2022 _ 26-10-2022

Draft Development Control Plan
Draft DCP _ Building Line Policy _ 57/2021/1/1 _ Public Exhibition _ 12/01/2021 _ 10/02/2021

Draft DCP _ Urban Places, Urban Forest Policy and Street Tree Policy _ Public Exhibition _ 22/03/2021 _ 26/04/2021 _ 57/2020/1/1

Draft DCP _ The Vintage _ 57/2020/2/1 _ Public Exhibition _ 30/08/2021 _ 20/09/2021

DRAFT DCP _ Vegetation Chapter _ Public exhibition _ 03/06/2021 _ 30/06/2021 _ 57/2020/2/1

Draft DCP _ Administrative and Legislative Context (replacing Part A Introduction)and E1 Centres (replacing E16 Commercial Precinct and E19 Branxton Town Centre relating to developments in E1 Local Centre, E2 Commercial Centre and MU1 Mixed Use zones) _ 57/2020/2/1 _ Public Exhibition _ 13/09/2023 _ 12/10/2023

Draft DCP _ Parking and Access Subdivision Chapter _ Public Exhibition _ 26/04/2024_ 24/05/2024

Draft DCP _ E20 Regrowth Kurri Kurri _ Adopted by Council _ Public Exhibition _ 01/05/2024 _ 29/05/2024

(4) **In this section –**

proposed environmental planning instrument means a draft environmental planning instrument and includes a planning proposal for a local environmental plan.

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 –

(i) a name, such as “Residential Zone” or “Heritage Area”, or
(ii) a number, such as “Zone No 2 (a)”,

SP2 Infrastructure,zone purpose: Air Transport Facility under the Cessnock Local Environmental Plan 2011.

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

SP2 Infrastructure,zone purpose: Air Transport Facility

2 Permitted without consent

Roads

3 Permitted with consent

Aquaculture; Group homes; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

4 Prohibited

Any development not specified in item 2 or 3

(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 fixed minimum land dimensions,
No

(e) whether the land is in an area of outstanding biodiversity value under the *Biodiversity Conservation Act 2016*:
The land is not land that includes or comprises biodiversity conservation under the Biodiversity Conservation Act 2016.

(f) whether the land is in 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 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 plans.

Cessnock Section 7.12 Levy Contributions Plan 2017.

Cessnock City Wide Local Infrastructure Contributions Plan 2020.

Housing and Productivity Contributions

(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 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 under the Housing Alterations Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
General Development Code (Transitional development under former General Housing Code and related provisions)	Complying Development under the General Development Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Industrial and Business Alterations Code	Complying Development under the Industrial and Business Alterations Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Industrial and Business Buildings Code	Complying Development under the Industrial and Business Buildings Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Container Recycling Facilities Code	Complying Development may not be carried out under the Container Recycling Facilities Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.
Subdivisions Code	Complying Development under the Subdivision Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Demolition Code	Complying Development under the Demolition Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Fire Safety Code	Complying Development under the Fire Safety Code may not be carried out on the land as the land is identified as heritage listed by an environmental planning instrument.
Agritourism and Farm Stay	Complying Development may not be carried out on

Accommodation Code	the land under the Agritourism and Farm Stay Accommodation Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.

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 l .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 1 of those clauses, the reasons why it may not be carried out under the clause.

Biodiversity Conservation Act 2016 and Fisheries Management Act 1994	Exempt Development may not be carried out on 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 1987	Exempt Development may 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 may not be carried out on 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 included from the General Exempt Development Code	Exempt Development may be carried out on land that is described or otherwise identified on a map specified in Schedule 4.
Land within 18 kilometres of Siding Spring Observatory	Exempt Development may not be carried out on Land within 18 kilometres of Siding Spring Observatory
Schedule 11 _ Conditions applying to complying development certificates under the Agritourism and Farm Stay Accommodation Code	Exempt Development may not be carried out on the land under the Agritourism and Farm Stay Accommodation Code as the subject land falls within a Local Environmental Plan zone that does not meet the requirements of the code.

(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 *Building Products (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.

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 realignment

Whether the land is affected by road widening or road realignment under –

(a) the *Roads Act 1993,* Part 3, Division 2, or

(b) an 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

(3) In this section –

flood planning area has the same meaning as in the Floodplain Development Manual.

Flood Risk Management Manual means the Flood Risk Management Manual, ISBN 978-1-923076-17-4, published by the NSW Government in June 2023.

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

Note:

Flood Studies

- Cessnock Citywide Flood Study
- Branxton Flood Level Review WMA Water Final Report

- Floodplain Risk Management Study and Plan Report Cessnock City (Black Creek)
- Hunter River Branxton to Green Rocks Flood Study Final Report
- Wallis and Swamp Creek Flood Study Final Report Volume 1
- Wallis and Swamp Creek Flood Study Final Report Volume 2
- Wollombi Floodplain Risk Management Study & Plan
- Greta Flood Study
- Swamp/Fishery Creek Floodplain Risk Management Study - Final Report

10. Council and other public authority policies on hazard risk restrictions

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

Landslip
No

Bushfire
No

Tidal Inundation
No

Subsidence
No

Acid Sulphate Soils
No

Contamination
Cessnock City Council _ Contaminated Land Policy _ Land Use Planning

Note:
Council has adopted a policy for managing contaminated land. This may restrict development of identified contaminated or potentially contaminated land and is implemented when zoning, development or land use changes are proposed. Consideration of Council's adopted policy and section C5 of the Cessnock Development Control Plan along with the provisions of State Environmental Planning Policy (Resilience and Hazards) 2021 is required when changes or development is proposed.

Aircraft Noise
No

Salinity
No

Coastal Hazards
No

Sea Level Rise
No

Any Other Risk (other than flooding)
Cessnock City Council _ Climate Change Policy _ Land Use Planning

(2) In this section –

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

(1) If any of the land is bush fire 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 bush fire prone land.

(2) If none of the land is bush fire 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

If the land includes residential premises, within the meaning of the *Home Building Act 1989* (Part 8, Division 1A), 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 the *Threatened Species Conservation Act 1995,* Part 7A that are taken to be biodiversity stewardship agreements under the *Biodiversity Conservation Act 2016*, Part 5

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

(1) 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 works.

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

(2) In this section –

existing coastal protection works has the same meaning as in the Local Government Act 1993, section 553B.

Note –

Existing coastal protection works are works to reduce the impact of coastal hazards on land, such as seawalls, revetments, groynes and beach nourishment, that existed before 1 January 2011.

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

If *State Environmental Planning Policy (Housing) 2021, 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, any conditions of a development consent in relation to the land that are of a kind referred to in that 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 *State Environmental Planning Policy (Affordable Rental Housing) 2009*, clause 17(1) or 38(1).
In this section, former site compatibility certificate means a site compatibility certificate issued under *State Environmental Planning Policy (Affordable Rental Housing) 2009*.

(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*.

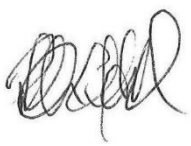
23. Water or sewerage services

If water or sewerage services are, or are to be, provided to the land under the *Water Industry Competition Act 2006*, a statement to that effect.

Note: A public water utility may not be the provider of some or all of the services to the land. If a water or sewerage service is provided to the land by a licensee under the *Water Industry Competition Act 2006*, a contract for the service will be deemed to have been entered into between the licensee and the owner of the land. A register relating to approvals and licences necessary for the provision of water or sewerage services under the *Water Industry Competition Act 2006* is maintained by the Independent Pricing and Regulatory Tribunal and provides information about the areas serviced, or to be serviced, under that Act. Purchasers should check the register to understand who will service the property. Outstanding charges for water or sewerage services provided under the *Water Industry Competition Act 2006* become the responsibility of the purchaser.

No

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



Peter Chrystal
Director Planning and Environment

PLANNING CERTIFICATE

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

Tetra Tech Coffey
Unit 4
60 Griffiths Road
LAMBTON NSW 2298

Applicants Reference
Cessnock hospital

CERTIFICATE DETAILS

Certificate Number:	1609
Date of Certificate:	31/05/2024

PROPERTY DETAILS

Address:	View Street CESSNOCK NSW 2325
Title:	LOT: 2 DP: 1173784
Parcel No.:	509221

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

PLANNING CERTIFICATE

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

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.

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 Strategic Land Use Planning unit, of the Planning and Environment directorate on 02 4993 4100.

Peter Chrystal
Director Planning and Environment

APPENDIX D: HISTORICAL AERIAL IMAGERY



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

20 0 20 40 60 80 100

Scale (metres) 1:2000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 1963

project no: 754-NTLEN347071 | figure no: FIGURE 4 | rev: A

PLOT DATE: 2/7/2024 10:18:57 AM DWG FILE: F:\1. PROJECTS\1. SYDENENVVOTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

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Scale (metres) 1:2000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 1976

project no: 754-NTLEN347071 | figure no: FIGURE 5 | rev: A

PLOT DATE: 2/7/2024 10:19:19 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\VOTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

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Scale (metres) 1:2000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 1984

project no: 754-NTLEN347071 | figure no: FIGURE 6 | rev: A

PLOT DATE: 2/7/2024 10:19:32 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\VOTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG

MACKELLAR STREET
DIXON STREET
JURD STREET
FOSTER STREET
ANN STREET
LEONARD STREET
BUCKLAND AVENUE
VIEW STREET
McGRANE STREET

LEGEND

SITE BOUNDARY

DRAFT

revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

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Scale (metres) 1:2000

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drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 1994

project no: 754-NTLEN347071 | figure no: FIGURE 7 | rev: A

PLOT DATE: 2/7/2024 10:19:48 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

20 0 20 40 60 80 100

Scale (metres) 1:2000

AERIAL IMAGE SOURCE: GOOGLE EARTH PRO 7.3.3
AERIAL IMAGE ©: IMAGERY DATE: 2007

drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 2007

project no: 754-NTLEN347071 | figure no: FIGURE 8 | rev: A

PLOT DATE: 2/7/2024 10:22:22 AM DWG FILE: F:\1. PROJECTS\1. SYDENENVOTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

20 0 20 40 60 80 100

Scale (metres) 1:2000

AERIAL IMAGE SOURCE: GOOGLE EARTH PRO 7.3.3
AERIAL IMAGE ©: IMAGERY DATE: 2017

drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 2017

project no: 754-NTLEN347071 | figure no: FIGURE 9 | rev: A

PLOT DATE: 2/7/2024 10:23:03 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG



revision	no.	description	drawn	approved	date
	A	ORIGINAL ISSUE	-	-	-

MAP PROJECTION: GDA2020 MGA ZONE 56

20 0 20 40 60 80 100

Scale (metres) 1:2000

AERIAL IMAGE SOURCE: GOOGLE EARTH PRO 7.3.3
AERIAL IMAGE ©: IMAGERY DATE: 2022

drawn	PS / DR
approved	-
date	02-07-2024
scale	AS SHOWN
original size	A3

TETRA TECH COFFEY

client: TURNER TOWNSEND

project: CESSNOCK HOSPITAL
24 VIEW STREET, CESSNOCK, NSW

title: HISTORICAL PHOTO - 2022

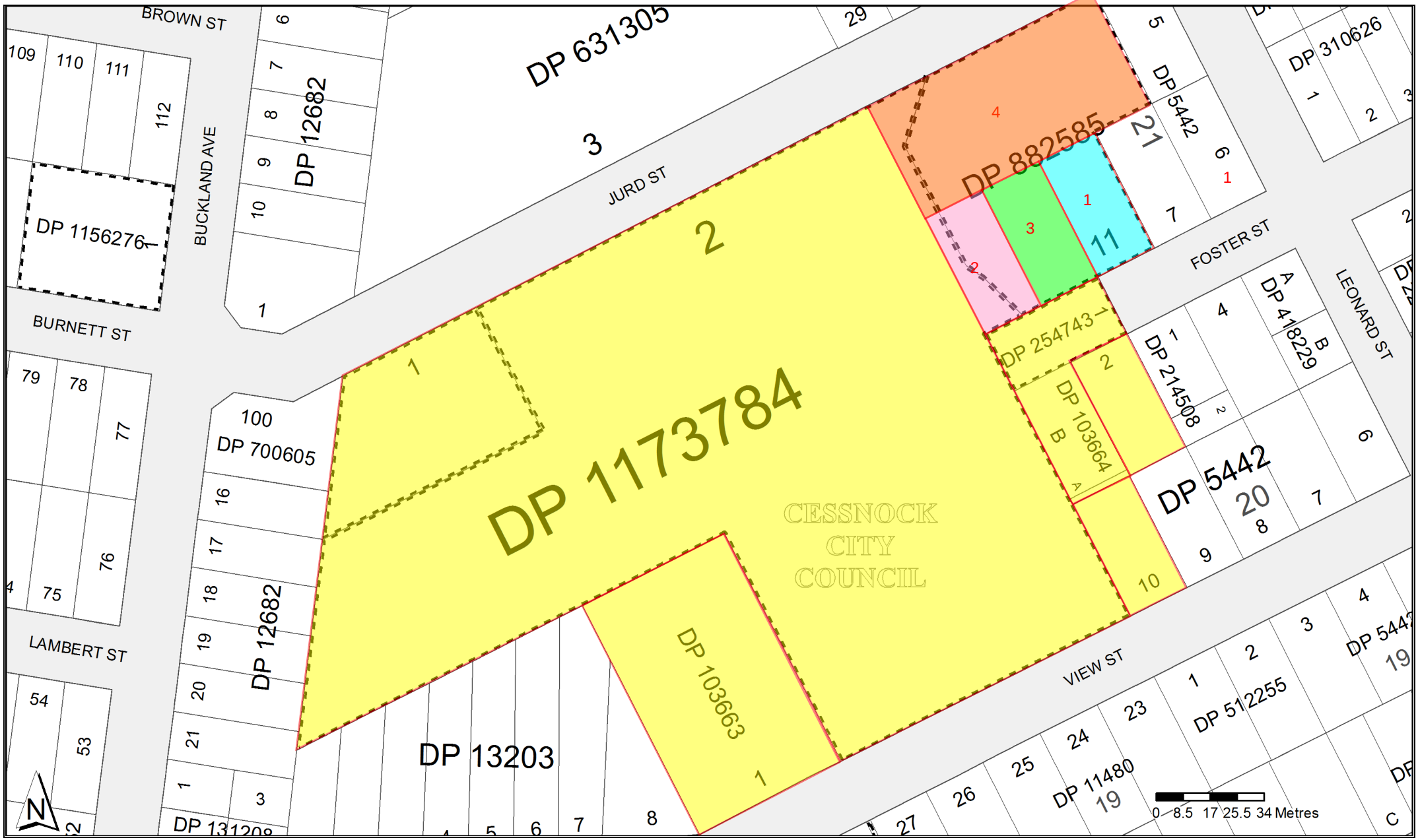
project no: 754-NTLEN347071 | figure no: FIGURE 10 | rev: A

PLOT DATE: 2/7/2024 10:23:45 AM DWG FILE: F:\1. PROJECTS\1. SYDENEN\VOTHER OFFICES\NTL-EN\754-NTLEN347071\CAD\754-NTLEN347071.DWG

APPENDIX E: LAND TITLES

Cadastral Records Enquiry Report : Lot 2 DP 1173784

Locality : CESSNOCK
LGA : CESSNOCK
Parish : POKOLBIN
County : NORTHUMBERLAND

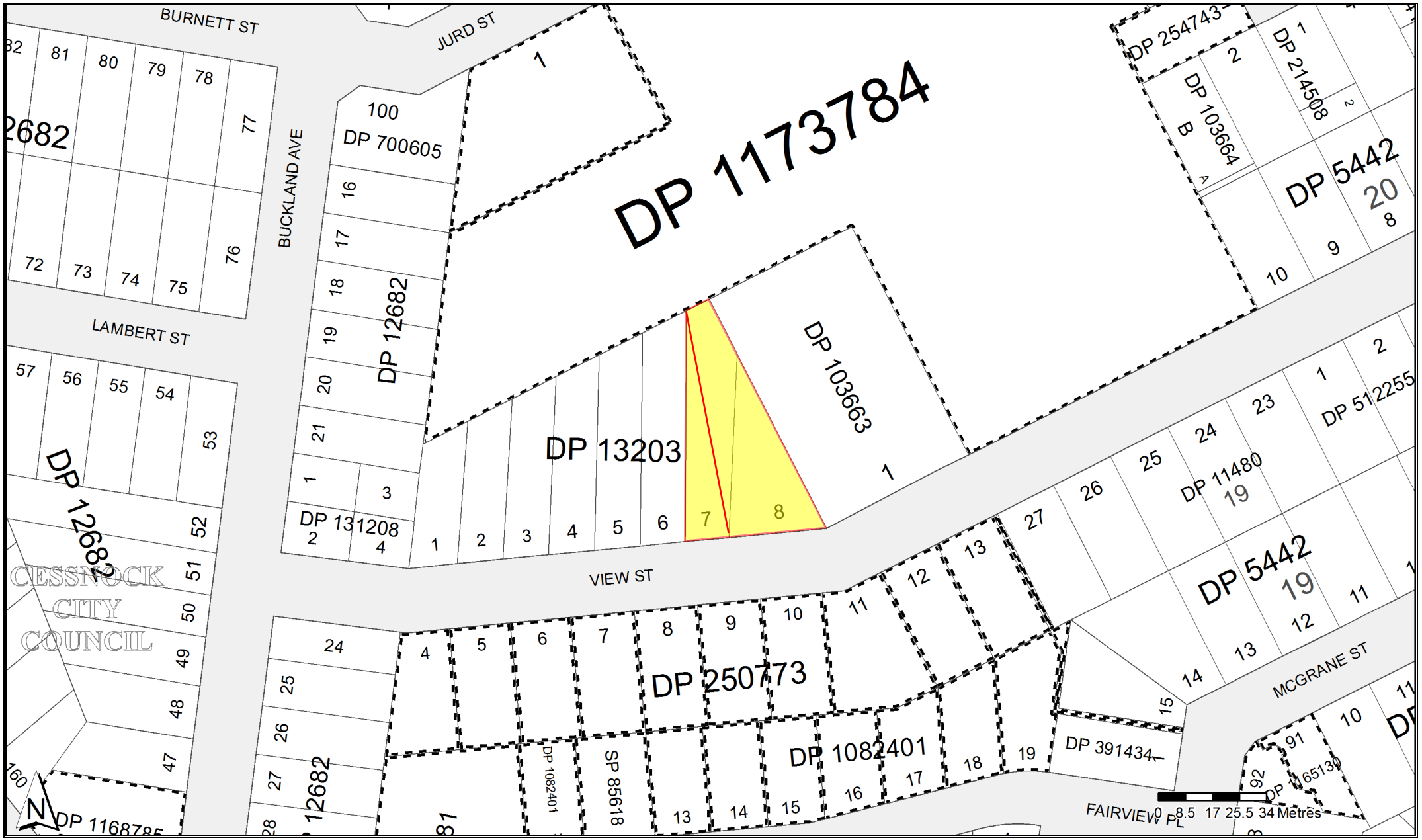


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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY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

Cadastral Records Enquiry Report : Lot 7 DP 13203

Locality : CESSNOCK
Parish : POKOLBIN
LGA : CESSNOCK
County : NORTHUMBERLAND



Report Generated 10:13:29 AM, 26 June, 2024
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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

InfoTrack

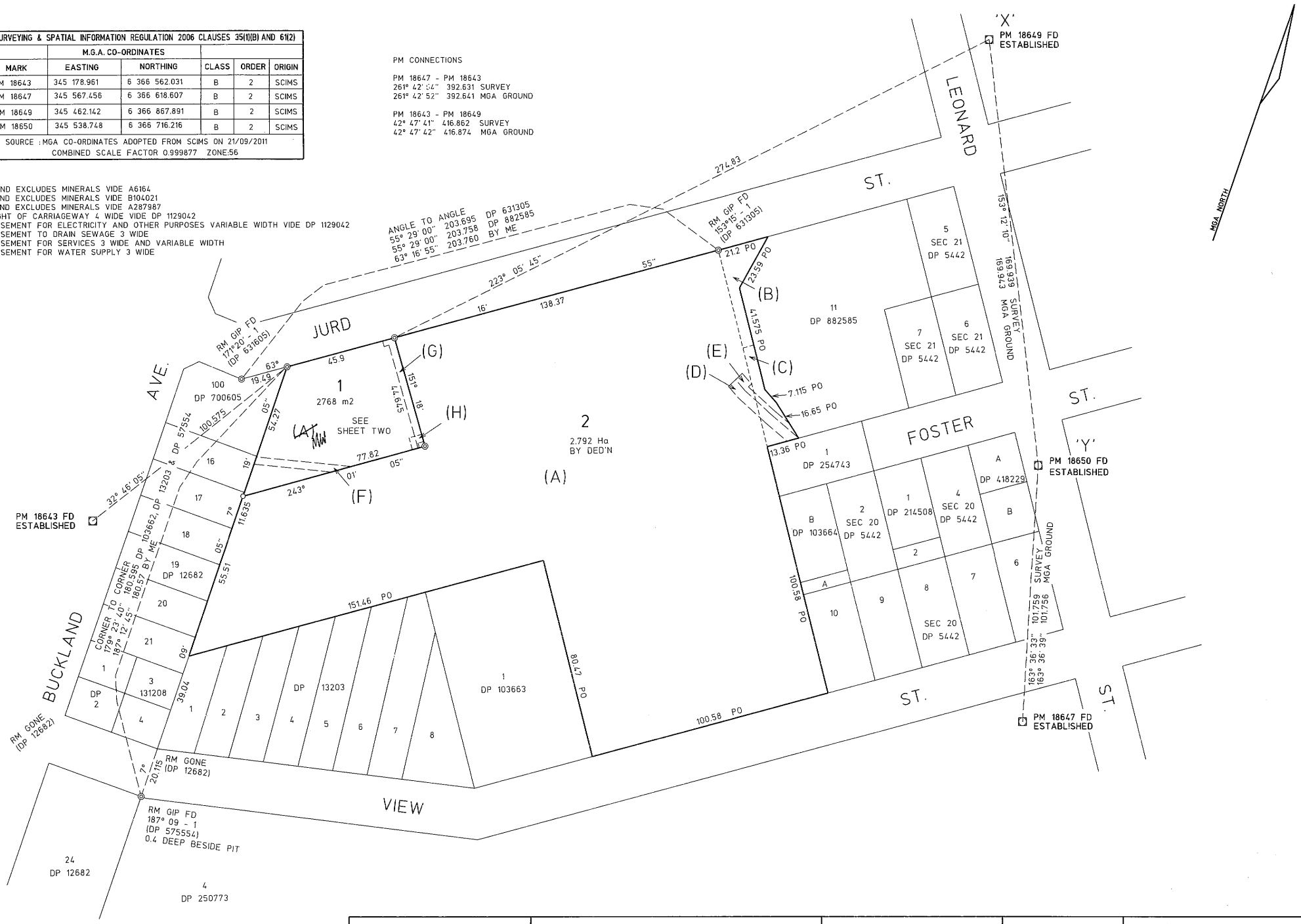
SURVEYING & SPATIAL INFORMATION REGULATION 2006 CLAUSES 35(1)(B) AND 61(2)					
	M.G.A. CO-ORDINATES				
MARK	EASTING	NORTHING	CLASS	ORDER	ORIGIN
PM 18643	345 178.961	6 366 562.031	B	2	SCIMS
PM 18647	345 567.456	6 366 618.607	B	2	SCIMS
PM 18649	345 462.142	6 366 867.891	B	2	SCIMS
PM 18650	345 538.748	6 366 716.216	B	2	SCIMS
SOURCE : MGA CO-ORDINATES ADOPTED FROM SCIMS ON 21/09/2011 COMBINED SCALE FACTOR 0.999877 ZONE:56					

PM CONNECTIONS

PM 18647 - PM 18643
261° 42' 54" 392.631 SURVEY
261° 42' 52" 392.641 MGA GROUND

PM 18643 - PM 18649
42° 47' 41" 416.862 SURVEY
42° 47' 42" 416.874 MGA GROUND

(A) LAND EXCLUDES MINERALS VIDE A6164
(B) LAND EXCLUDES MINERALS VIDE B104021
(C) LAND EXCLUDES MINERALS VIDE A287987
(D) RIGHT OF CARRIAGEWAY 4 WIDE VIDE DP 1129042
(E) EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH VIDE DP 1129042
(F) EASEMENT TO DRAIN SEWAGE 3 WIDE
(G) EASEMENT FOR SERVICES 3 WIDE AND VARIABLE WIDTH
(H) EASEMENT FOR WATER SUPPLY 3 WIDE



Surveyor: MICHAEL BERNARD WAUD Date of Survey: 12-10-2011 Surveyor's Ref: 56752 2011M7100(1495) Report	PLAN OF SUBDIVISION OF LOT 12 DP 882585	LGA: CESSNOCK Locality: CESSNOCK Subdivision No: 14/2011/312/1 Lengths are in metres. Reduction Ratio 1: 1000	Registered: 16.4.2012

DP1173784 P

Req:R638886 /Doc:DP 1173784 P /Rev:17-Apr-2012 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 15:34 /Seq:1 of 3
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

(A) LAND EXCLUDES MINERALS VIDE A6164
(B) LAND EXCLUDES MINERALS VIDE B104021
(C) LAND EXCLUDES MINERALS VIDE A287987
(D) RIGHT OF CARRIAGEWAY 4 WIDE VIDE DP 1129042
(E) EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH VIDE DP 1129042
(F) EASEMENT TO DRAIN SEWAGE 3 WIDE
(G) EASEMENT FOR SERVICES 3 WIDE AND VARIABLE WIDTH
(H) EASEMENT FOR WATER SUPPLY 3 WIDE

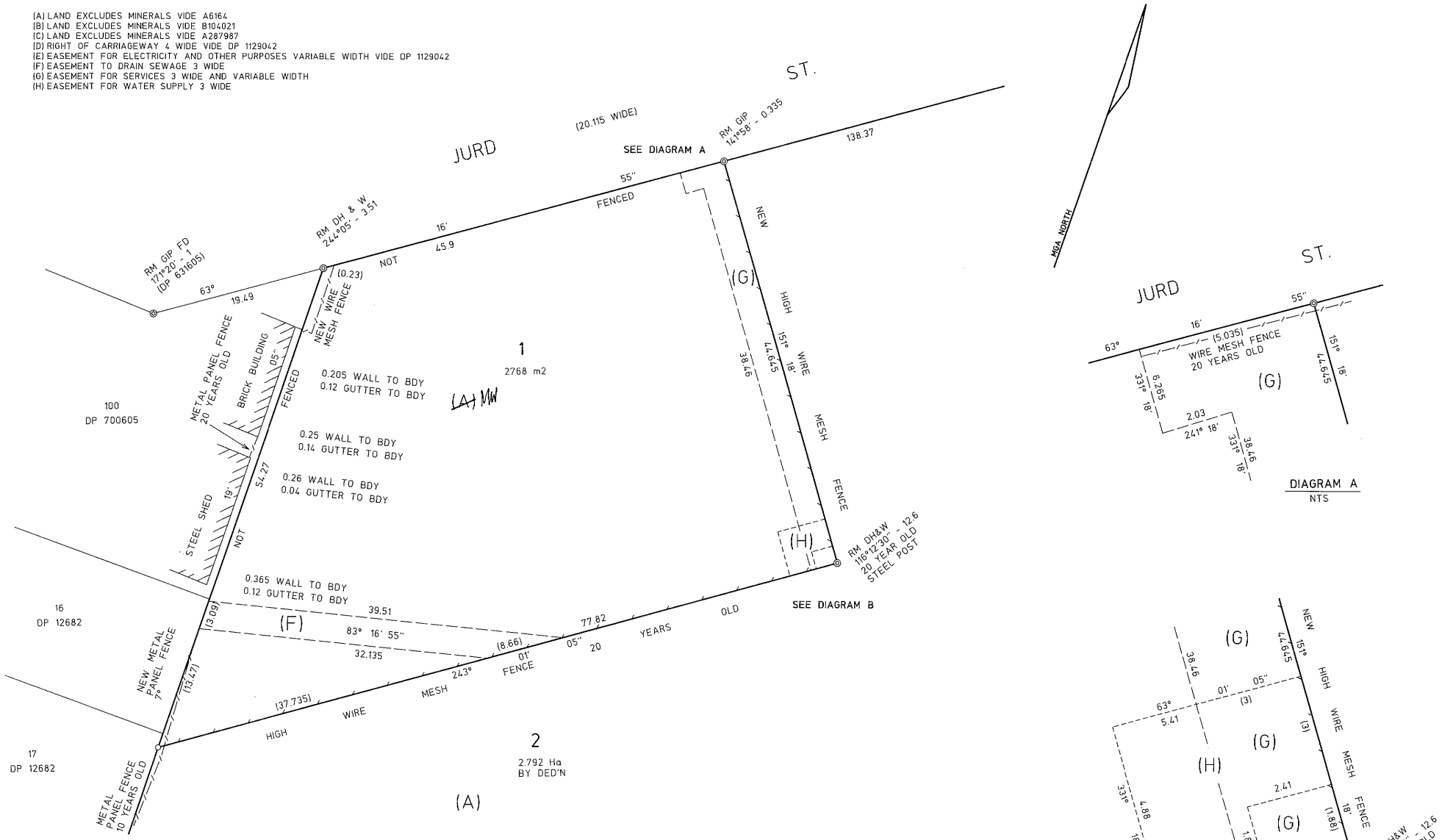


DIAGRAM A
NTS

DIAGRAM B
NTS

Surveyor: MICHAEL BERNARD WAUD Date of Survey: 12-10-2011 Surveyor's Ref: 56752 2011M7100(1495) Report	PLAN OF SUBDIVISION OF LOT 12 DP 882585	**LGA:** CESSNOCK **Locality:** CESSNOCK **Subdivision No:** 14/2011/312/1 Lengths are in metres. Reduction Ratio 1: 300	Registered: 16.4.2012	DP1173784

10 20 30 40 50 Table of mm 90 100 110 120 130 140

Req:R638886 /Doc:DP 1173784 P /Rev:17-Apr-2012 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 15:34 /Seq:2 of 3
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

Req:R638886 /Doc:DP 1173784 P /Rev:17-Apr-2012 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 15:34 /Seq:3 of 3
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

PLAN FORM 6 **WARNING: Creasing or folding will lead to rejection**

DEPOSITED PLAN ADMINISTRATION SHEET

Sheet 1 of 1 sheet(s)

SIGNATURES, SEALS AND STATEMENTS of intention to dedicate public roads, public reserves and drainage reserves or create easements, restrictions on the use of land and positive covenants

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919 IT IS INDENDED TO CREATE

1) **EASEMENT TO DRAIN SEWAGE 3 WIDE**
2) **EASEMENT FOR SERVICES 3 WIDE AND VARIABLE WIDTH**
3) **EASEMENT FOR WATER SUPPLY 3 WIDE**

Signed by me Stephen Gardner **as delegate of the HEALTH ADMINISTRATION CORPORATION, pursuant to section 21 (1) Health Administration Act, 1982 and I hereby certify that I have no notice of the revocation of such delegation.**

If space is insufficient use PLAN FORM 6A annexure sheet

Office Use Only

DP1173784 S

Office Use Only

Registered: 16.4.2012

Title System: TORRENS

Purpose: SUBDIVISION

PLAN OF SUBDIVISION OF LOT 12 DP882585

LGA: CESSNOCK

Locality: CESSNOCK

Parish: POKOLBIN

County: NORTHUMBERLAND

Crown Lands NSW/Western Lands Office Approval

I.....in approving this plan certify
(Authorised Officer)
that all necessary approvals in regard to the allocation of the land shown herein have been given

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to:

the proposed Subdivision set out herein
(insert 'subdivision' or 'new road')

.....

* Authorised Person/*~~General Manager/*Accredited Certifier~~

Consent Authority: Cessnock City Council

Date of Endorsement: 7 February 2012

Accreditation no: –

Subdivision Certificate no: 14/2011/312/1

File no: 8/2011/312/1

* Strike through inapplicable parts.

Survey Certificate

I, MICHAEL BERNARD WAUD

of NSW PUBLIC WORKS

a surveyor registered under the Surveying and Spatial Information Act 2002, certify that the survey represented in this plan is accurate, has been made in accordance with the Surveying and Spatial Information Regulation 2006 and was completed on: 12th October 2011

The survey relates to LOT(S) 1 AND 7 Connections NNN

(specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)

Signature Michael Waud Dated: 02/11/2011

Surveyor registered under the Surveying and Spatial Information Act 2002

Datum Line: X - Y

Type: Urban/~~Rural~~

Plans used in the preparation of survey/~~compilation~~

DP5442
DP103662
DP13203
DP12682
DP575554
DP631305
DP882585
DP1129042

If space is insufficient use PLAN FORM 6A annexure sheet

Surveyor's Reference: 56752 Report 2011M7100(1495)

PLANFORM 2

Plan Drawing only to appear in this space.

*OFFICE USE ONLY

SIGNATURES AND SEALS ONLY

SIGNED SEALED AND DELIVERED
for and on behalf of EnergyAustralia
by KATHERINE MARGARET GUNTON
its duly constituted Attorney pursuant
to Power of Attorney registered
Book 4528 No. 401

Attorney

Witness

Witness

Nigel Lyons
Chief Executive
Hunter New
England Area
Health Service

Signed by me Dennis Jenner
as delegate of the Health Administration Corporation pursuant to Section 21(1) Health Administration Act 1982 and I hereby certify that I have no notice of the revocation of such delegation.

Witness: BWilson
Bryson Wilson

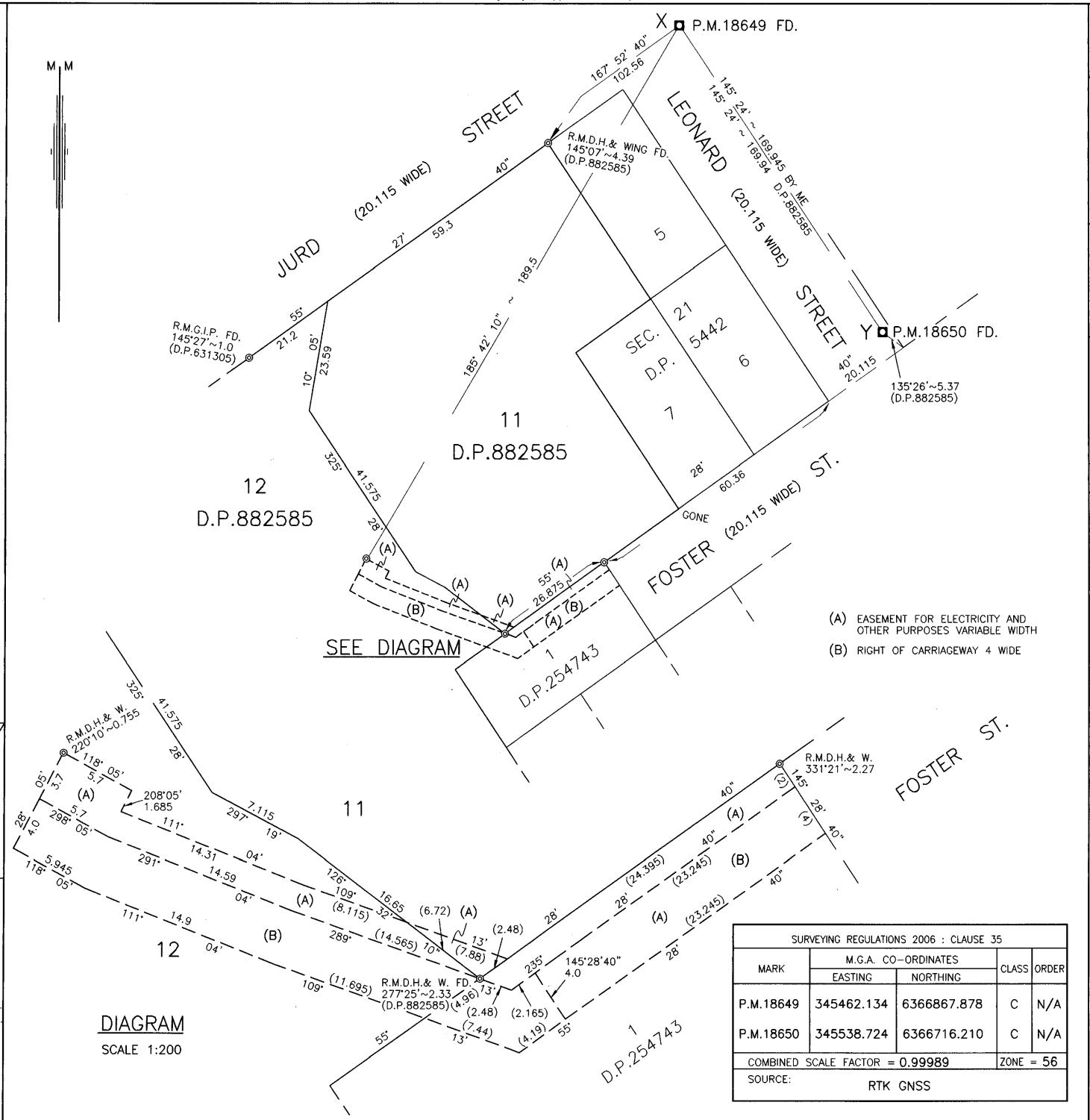


DIAGRAM
SCALE 1:200

SURVEYING REGULATIONS 2006 : CLAUSE 35				
MARK	M.G.A. CO-ORDINATES EASTING	M.G.A. CO-ORDINATES NORTHING	CLASS	ORDER
P.M.18649	345462.134	6366867.878	C	N/A
P.M.18650	345538.724	6366716.210	C	N/A
COMBINED SCALE FACTOR = 0.99989			ZONE = 56	
SOURCE: RTK GNSS				

Department of Lands Approval

I ..... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown hereon have been given.

Signature .....

Date .....

File Number .....

Office .....

Subdivision Certificate

I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed

..... set out herein

* (Insert 'subdivision' or 'new road')

.....

* Authorised Person/General Manager/Accredited Certifier

Consent Authority .....

Date of endorsement .....

Accreditation no. .....

Subdivision Certificate no. .....

File no. .....

* Delete whichever is inapplicable

SURVEYOR'S REFERENCE: 18697

DP1129042 P

Registered: 28.7.2008

Title System: TORRENS

Purpose: EASEMENT

Ref. Map: U2765-82#

Last Plan: DP882585 DP254743

PLAN OF EASEMENTS WITHIN LOTS 11 AND 12, D.P.882585 AND LOT 1, D.P.254743

Lengths are in metres. Reduction Ratio 1: 600

L G A: CESSNOCK

Locality: CESSNOCK

Parish: POKOLBIN

County: NORTHUMBERLAND

This is sheet 1 of my plan in sheets.

Surveying Regulation, 2006

I, ANDREW MARK SCOTT

of MARSHALL SCOTT PTY LTD

PO BOX 165 CESSNOCK 2325

a land surveyor registered under the Surveying Act, 2002, certify that the survey represented in this plan is accurate, has been made in accordance with the Surveying Regulation, 2006 and was completed on 25TH JUNE, 2007.

(Signature) ..... Dated 17/7/07

Land Surveyor registered under the Surveying Act, 2002

Datum Line: X - Y

Type: Urban

Plans used in preparation of survey/compilation.

D.P.254743
D.P.631305
D.P.882585

PANEL FOR USE ONLY for statements of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919, IT IS INTENDED TO CREATE:

1. EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH
2. RIGHT OF CARRIAGEWAY 4 WIDE

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 Table of mm 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

InfoTrack
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital /Doc:DP 1129042 P /Rev:29-Jul-2008 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 15:34 /Seq:1 of 1
Req:R638885

Req:R634453 /Doc:CT 10047-242 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 10:11 /Seq:1 of 4
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

10047242

G. 2

NEW SOUTH WALES

[redacted]IFICATE OF TITLE

ERTY ACT, 1900, as amended.

Application No. 14720

Prior Title Vol. 8350 Fol. 237

Vol. 10047 Fol. 242

1st Edition issued 5-7-1965

EH J926823 CANCELLED

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness R B Latta

SEE AUTO FOLIO

Registrar General.

(Page 1) Vol. 10047 Fol. 242

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lots 2 and 10 of Section 20 and Lots 1 to 4 inclusive and Lots 8, 9 and 10 of Section 21 in Deposited Plan 5442, Lots 7 and 8 in Deposited Plan 13203, Lot 1 in Deposited Plan 103662, Lot 1 in Deposited Plan 103663 and Lot A in Deposited Plan 103664 in the City of Greater Cessnock Parish of Pokolbin and County of Northumberland being part of Portion 261 granted to David Campbell on 29-10-1834. Excepting thereout all mines,beds and seams of coal and other minerals and all metals excepted by Transfers Nos. B291230 and B627932 as regards Lots 8 and 7 in Deposited Plan 13203 respectively and the coal and other minerals excepted by Transfer No.A6164 affecting Lot 1 in Deposited Plan 103662, A12144 affecting Lot 10 of Section 20 in Deposited Plan 5442, A19195 affecting Lot A in Deposited Plan 103664, A121338 affecting Lot 8 of Section 21 in Deposited Plan 5442, A222943 affecting Lot 2 of Section 20 in Deposited Plan 5442, A287987 affecting Lot 10 of Section 21 in Deposited Plan 5442, A611067 affecting Lot 9 of Section 21 in Deposited Plan 5442, B104021 affecting Lots 1 to 4 inclusive of Section 21 in Deposited Plan 5442 and B238595 affecting Lot 1 in Deposited Plan 103663.

Registrar General.

FIRST SCHEDULE (continued overleaf)

* THE CESSNOCK DISTRICT HOSPITAL.

GRY

Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General.

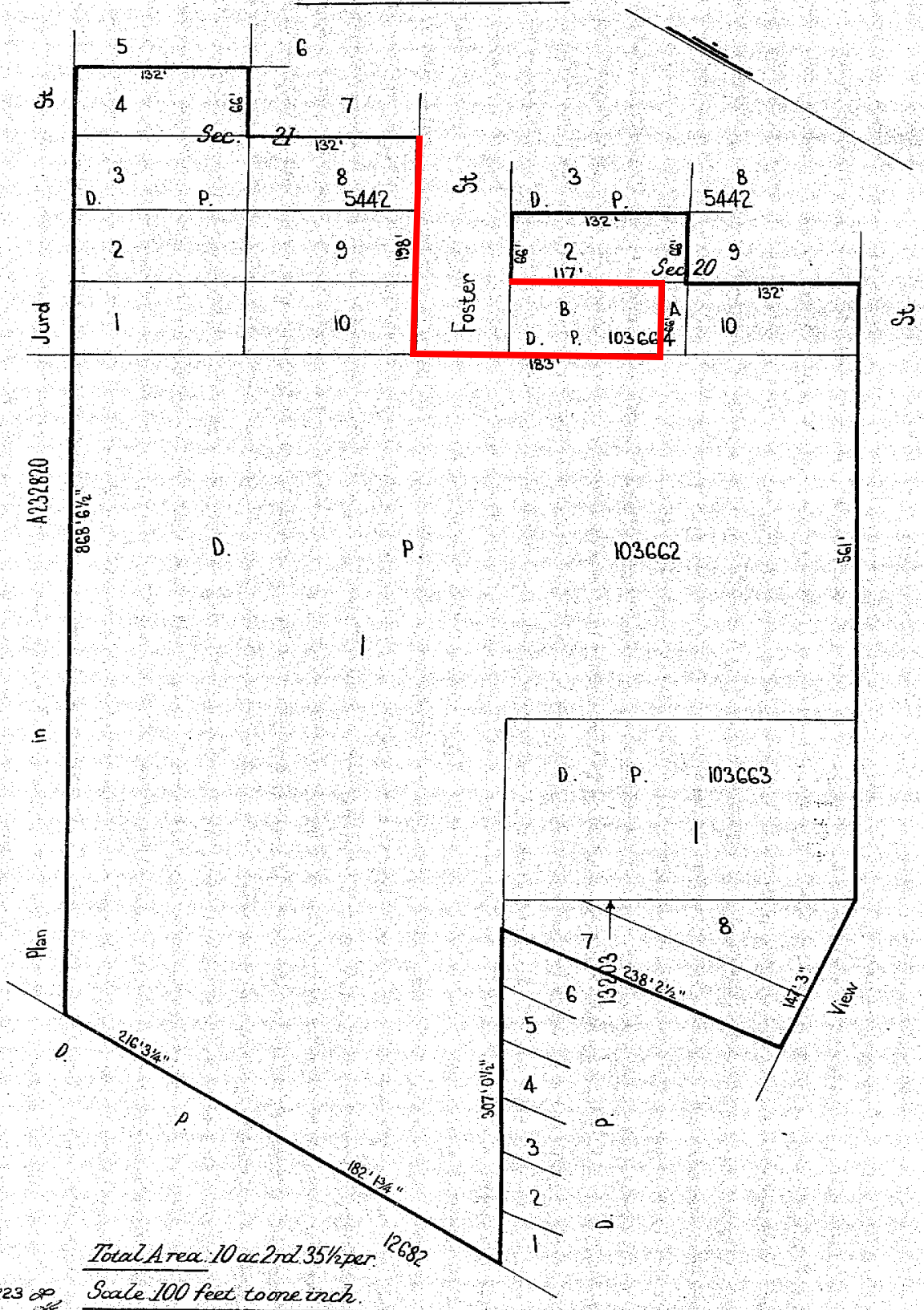
PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

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

Vol. 10047 Fol. 242

PLAN SHOWING LOCATION OF LAND.



Total Area 10 ac 2 rd 35½ per.

J926823 CP 5/12

Scale 100 feet to one inch.

All lengths shown hereon are in feet and metres.

Req:R634453 /Doc:CT 10047-242 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 10:11 /Seq:2 of 4
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

Req:R634453 /Doc:CT 10047-242 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 10:11 /Seq:3 of 4
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FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registrar General
	NATURE	NUMBER	DATE		

SECOND SCHEDULE (continued)

INSTRUMENT			PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
NATURE	NUMBER	DATE						

FORM No. 49

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

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registrar General
	NATURE	NUMBER	DATE		
CANCELLED SEE AUTO FOLIO					

SECOND SCHEDULE (continued)

INSTRUMENT			PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
NATURE	NUMBER	DATE						

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

Req:R634453 /Doc:CT 10047-242 CT /Rev:16-Dec-2010 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 10:11 /Seq:4 of 4
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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

26/6/2024 10:11AM

FOLIO: AUTO CONSOL 10047-242

Recorded	Number	Type of Instrument	C.T. Issue
14/8/1991		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 10047-242	
		PARCELS IN CONSOL ARE: 2/20/5442, 10/20/5442, 1-4/21/5442, 8-10/21/5442, 7-8/13203, 1/103662, 1/103663, A/103664.	
13/1/1999	5523166	1/21/5442 EXCISED	
13/1/1999	5523166	2/21/5442 EXCISED	
13/1/1999	5523166	3/21/5442 EXCISED	
13/1/1999	5523166	4/21/5442 EXCISED	
13/1/1999	5523166	8/21/5442 EXCISED	
13/1/1999	5523166	9/21/5442 EXCISED	
13/1/1999	5523166	10/21/5442 EXCISED	
13/1/1999	5523166	1/103662 EXCISED	
13/1/1999	5523297	DEPARTMENTAL DEALING	EDITION 1
16/5/2007	AD122379	CAVEAT	
23/12/2008	AE379421	LEASE	EDITION 2
23/12/2008	AE402972	WITHDRAWAL OF CAVEAT	
4/10/2019	AP410943	REQUEST	
4/10/2019	AP583654	DEPARTMENTAL DEALING	EDITION 3

*** END OF SEARCH ***

cessnock hospital PRINTED ON 26/6/2024

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Historical Search

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

26/6/2024 10:54AM

FOLIO: 12/882585

First Title(s): OLD SYSTEM
Prior Title(s): 1/21/5442 10/21/5442
1/103662

Recorded	Number	Type of Instrument	C.T. Issue
18/1/1999	DP882585	DEPOSITED PLAN	FOLIO CREATED EDITION 1
15/6/2007	AD25921	APPLICATION	
15/6/2007	AD25922	TRANSFER	EDITION 2
28/7/2008	DP1129042	DEPOSITED PLAN	EDITION 3
16/4/2012	DP1173784	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

cessnock hospital PRINTED ON 26/6/2024

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Received: 26/06/2024 10:54:02

Req:R635073 /Doc:DL AD025922 /Rev:18-Jun-2007 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 10:54 /Seq:1 of 1
© Office of the Registrar-General /Src:InfoTrack /Ref:cessnock hospital

Form: 01T
Release: 3.1
www.lands.nsw.gov.au

TRANSFER

New South Wales
Real Property Act 1900

AD25922J

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the F 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.

STAMP DUTY Office of State Revenue use only

NEW SOUTH WALES DUTY
28-03-2007 0004153777-002
SECTION OTHR LEGN-ORIGINAL
NO DUTY PAYABLE

(A) **TORRENS TITLE** 12/882585

(B) **LODGED BY**

Document Collection Box	Name, Address or DX and Telephone	CODES
411B	LLPN123283V TRAVERS & CO Suite 502, 5th Floor 66 King St., Sydney 2000 DX 590 SYDNEY Telephone: 9262 5811 Reference: DOH CESSNOCK	T TW (Sheriff)

(C) **TRANSFEROR** HUNTER AND NEW ENGLAND AREA HEALTH SERVICE

(D) **CONSIDERATION** The transferor acknowledges receipt of the consideration of $ 1.00 and as regards

(E) **ESTATE** the land specified above transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

(G) Encumbrances (if applicable):

(H) **TRANSFEREE** HEALTH ADMINISTRATION CORPORATION

(I) **TENANCY:** CLICK & PICK >>>

s. 9 Health Administration Act 1982

DATE

(J) I certify that the person(s) 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

Name of witness: X Desiree Chymiak

Address of witness: X Locked Bag 1
New Lambton

Certified correct for the purposes of the Real Property Act 1900 by the authorised officer named below.

Signature of authorised officer: X

Authorised officer's name: TERRY CLOUT
Authority of officer: CHIEF EXECUTIVE
Signing on behalf of: H&NEAHS

I certify that the person(s) 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: B.W.J.L

Name of witness: Bryson Wilson

Address of witness: 73 Miller St, North Sydney

Certified correct for the purposes of the Real Property Act 1900 by the authorised officer named below.

a delegate of the HEALTH ADMINISTRATION CORPORATION pursuant to Section 21(1) of the HEALTH ADMINISTRATION ACT, 1982

Signature of authorised officer:

Authorised officer's name: DENNIS JENNER
Authority of officer: ASSOCIATE DIRECTOR
Signing on behalf of: HAC

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

WARNING: ***** FOLIO CANCELLED *****

FOLIO: 12/882585

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	10:53 AM	3	28/7/2008

LAND

LOT 12 IN DEPOSITED PLAN 882585
AT CESSNOCK
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP882585

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (T AD25922)

SECOND SCHEDULE (7 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A6164 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
3 B104021 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
4 A287987 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
5 DP1129042 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1129042
6 DP1129042 RIGHT OF CARRIAGEWAY 4 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1129042
* 7 DP1173784 ********** FOLIO CANCELLED ********** NEW FOLIOS HAVE BEEN CREATED FOR LOT(S) 1 AND 2 IN DP1173784

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

cessnock hospital PRINTED ON 26/6/2024

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/1173784

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	10:52 AM	1	16/4/2012

LAND

LOT 1 IN DEPOSITED PLAN 1173784
AT CESSNOCK
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP1173784

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION

SECOND SCHEDULE (4 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 DP1173784 EASEMENT TO DRAIN SEWAGE 3 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 DP1173784 EASEMENT FOR SERVICES 3 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
4 DP1173784 EASEMENT FOR WATER SUPPLY 3 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 2/1173784

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	10:52 AM	1	16/4/2012

LAND

LOT 2 IN DEPOSITED PLAN 1173784
AT CESSNOCK
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP1173784

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION

SECOND SCHEDULE (9 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A6164 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
3 B104021 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
4 A287987 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO DESIGNATED IN THE TITLE DIAGRAM
5 DP1129042 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
6 DP1129042 RIGHT OF CARRIAGEWAY 4 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
7 DP1173784 EASEMENT TO DRAIN SEWAGE 3 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
8 DP1173784 EASEMENT FOR SERVICES 3 METRE(S) WIDE AND VARIABLE APPURTENANT TO THE LAND ABOVE DESCRIBED
9 DP1173784 EASEMENT FOR WATER SUPPLY 3 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 10047-242

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	10:10 AM	3	4/10/2019

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM SEE SCHEDULE OF PARCELS

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP410943)

SECOND SCHEDULE (7 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 B291230 LAND EXCLUDES MINERALS WITHIN LOT 8 IN DP13203
3 B627932 LAND EXCLUDES MINERALS WITHIN LOT 7 IN DP13203
4 A12144 LAND EXCLUDES MINERALS WITHIN LOT 10, SEC 20 IN DP5442
5 A19195 LAND EXCLUDES MINERALS WITHIN LOT A IN DP103664
6 A222943 LAND EXCLUDES MINERALS WITHIN LOT 2, SEC 20 IN DP5442
7 B238591 LAND EXCLUDES MINERALS WITHIN LOT 1 IN DP103663

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS	TITLE DIAGRAM
LOT 2 SEC. 20 IN DP5442	DP5442
LOT 10 SEC. 20 IN DP5442	DP5442
LOTS 7-8 IN DP13203	DP13203
LOT 1 IN DP103663	DP103663
LOT A IN DP103664	DP103664.

*** END OF SEARCH ***

cessnock hospital PRINTED ON 26/6/2024

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

26/6/2024 11:20AM

FOLIO: 11/882585

First Title(s): OLD SYSTEM
Prior Title(s): 1-4/21/5442 8-10/21/5442

Recorded	Number	Type of Instrument	C.T. Issue
18/1/1999	DP882585	DEPOSITED PLAN	FOLIO CREATED EDITION 1
19/1/1999	5468949	LEASE	EDITION 2
4/7/2008	AE70255	CHANGE OF NAME	
28/7/2008	DP1129042	DEPOSITED PLAN	EDITION 3
4/10/2019	AP410943	REQUEST	
4/10/2019	AP583654	DEPARTMENTAL DEALING	EDITION 4

*** END OF SEARCH ***

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Received: 26/06/2024 11:20:38

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Form: 10CN
Release: 2.0
www.lands.nsw.gov.au

CHANGE OF NAM

New South Wales
Real Property Act 1900

AE70255S

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.

(A) **LAND**

Torrens Title (Folio A/418229) (Folio B/103664) (Folio 1/254743)
Folio 11/882585 Vol 8052 Folio ~~209~~ 204 Vol 6744 Folio 187 Vol 13698 Folio 103

PR

(B) **REGISTERED DEALING**

Number	Torrens Title

(C) **LODGED BY**

Document Collection Box	Name, Address or DX and Telephone	CODE
323X	LLPN: 123211 X AUSEARCH PTY. LTD. Reference: SHN : PB	CN

(D) **REGISTERED PROPRIETOR**

The Cessnock District Hospital

(E) **NEW NAME**

Hunter New England Area Health Service

(F) The registered proprietor of the above land applies to have its new name recorded in the Register in respect of that land

(G) **STATUTORY DECLARATION BY THE APPLICANT***

I, see Annexure A.

solemnly and sincerely declare that—

1. I am ;
2.

I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900

and I certify this application to be correct for the purposes of the Real Property Act 1900.

Made and subscribed at Newcastle in the State of New South Wales

on 30th June 2008 in the presence of—

Signature of witness: Signature of applicant:

Name of witness: DANIEL RAMPLING

Address of witness: 28 HONEYSUCKLE DRIVE
NEWCASTLE

Qualification of witness: ☐ Justice of the Peace ☒ Practising Solicitor ☐ Other *[specify]*

* As the Department of Lands may not be able to provide the services of a justice of the peace or other qualified witness, the statutory declaration should be signed and witnessed prior to lodgment of the form at Land and Property Information Division.

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Annexure **A** to _____

Parties:

The Cessnock District Hospital

Dated 11 June 2008

I, Helen Elizabeth Murray solemnly and sincerely declare that:

1 I am the Solicitor for Hunter New England Area Health Service, the registered Proprietor for the land comprised in Folios 11/882585, Certificates of Title Volume 6744 Folio 187, Volume 13698 Folio 103 and Volume 8052 Folio 29 (Title Deeds) The Cessnock District Hospital.

2 The Title Deeds are either in the name of The Cessnock District Hospital or Cessnock District Hospital.

3 The transfer of The Cessnock District Hospital to the Northumberland Area Health Service is recorded in Government Gazette No. 153 dated 26 September 1986, a copy of which is attached and marked "B",

4 Pursuant to Section 9(2) of the Area Health Services Act 1986 Northumberland Area Health Service was amalgamated with Greater New England Area Health Service, Lower Hunter Area Health Service and Upper Hunter Area Health Service to constitute the Hunter Area Health Service,

5. The transfer of Nothumberland Area Health Service to Hunter Area Health Service is recorded in Government Gazette No. 3999 dated 29 July 1988. A copy of the relevant page of the Government Gazette is attached and marked "C",

6. Pursuant to Section 20(1) of the Health Service Act 1997, the Hunter Area Health Service and the New England Area Health Service where amalgamated to form the Hunter and New England Area Health Service. A copy of the Health Services (amalgamation of Area Health Services) Order 2004 is attached and marked "D",

7. The assets of The Cessnock District Hospital are now held by Hunter New England Area Health Service.

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

Declared at Newcastle.)
the 30th day)
of June 2008)

.....

Before me:

.....
Solicitor / ~~Justice of the Peace~~
Daniel Rampling

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[4803]
REFERENCE LIBRARY

"B"

SUPPLEMENT
TO THE
Government Gazette
OF THE STATE OF
NEW SOUTH WALES
PUBLISHED BY AUTHORITY

This is the Annexure marked "B" referred to in the Statutory Declaration of
Declared before me this day of 20

NEWCASTLE REGION PUBLIC LIBRARY
OCT 1986

No. 153] FRIDAY, 26 SEPTEMBER [1986

AREA HEALTH SERVICES ACT 1986—ORDER

(L.S.) J. A. ROWLAND, *Governor.*

I, Air Marshal Sir JAMES ANTHONY ROWLAND, Governor of the State of New South Wales, with the advice of the Executive Council, and in pursuance of section 21 of the Area Health Services Act 1986, do, by this my Order, (with effect on and from 1 October 1986)—

(a) transfer each incorporated hospital specified in Column 1 of the following Table, being incorporated hospitals mentioned in the Second Schedule to the Public Hospitals Act 1929, to the area health service specified in Column 2 opposite that incorporated hospital.

TABLE

Column 1	Column 2
The Auburn District Hospital	Lang Area Health Service
The Balmain Hospital	Royal Prince Alfred Hospital and Area Health Service
The Bankstown Hospital	Lang Area Health Service
Blacktown Hospital	Prospect Area Health Service
The Canterbury Area Health Service	Lang Area Health Service
Central Coast Hospitals and Area Health Service	Central Coast Area Health Service
The Cessnock District Hospital	Northumberland Area Health Service
The Dalwood Children's Home	Manly Warringah Area Health Service
The Dungog and District Hospital	Lower Hunter Area Health Service
The Eastern Suburbs Hospital	Eastern Health Service
The Fairfield District Hospital	Whitlam Area Health Service
The Governor Phillip Special Hospital, Penrith	Castlereagh Area Health Service
Hawkesbury Hospital, Windsor	Castlereagh Area Health Service
The Hornsby and Ku-ring-gai Hospital and Area Health Service	Hornsby Ku-ring-gai Area Health Service
The Illawarra Area Health Service	Illawarra Area Health Service
The Inner Western Suburbs Area Health Service	Royal Prince Alfred Hospital and Area Health Service
The Kiama District Hospital	Illawarra Area Health Service
The Kurri Kurri District Hospital	Northumberland Area Health Service
The Langton Centre	Eastern Health Service
The Liverpool Hospital	Whitlam Area Health Service
The Macarthur Area Health Service	Macarthur Area Health Service
The Maitland Hospital	Lower Hunter Area Health Service
The Manly District Hospital and Area Health Service	Manly Warringah Area Health Service
The Marrickville District Hospital	Royal Prince Alfred Hospital and Area Health Service
The Merriwa District Hospital	Upper Hunter Area Health Service
Milton–Ulladulla Hospital	Shoalhaven Area Health Service
Mona Vale Hospital and Warringah Area Health Service	Manly Warringah Area Health Service
The Mount Druitt Hospital	Prospect Area Health Service
The Muswellbrook District Hospital	Upper Hunter Area Health Service
The Nepean Hospital, Penrith	Castlereagh Area Health Service
The Newcastle Western Suburbs Hospital	Greater Newcastle Area Health Service
The Parramatta Hospitals	Cumberland Area Health Service
The Prince Henry Hospital	Eastern Health Service
The Prince of Wales Hospital	Eastern Health Service
The Rachel Forster Hospital	Royal Prince Alfred Hospital and Area Health Service

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Column 1	Column 2
The Royal Newcastle Hospital	Greater Newcastle Area Health Service
The Royal North Shore Hospital of Sydney	Royal North Shore Hospital and Area Health Service
The Royal Prince Alfred Hospital	Royal Prince Alfred Hospital and Area Health Service
The Royal South Sydney Hospital	Eastern Health Service
The Ryde Hospital and Ryde-Hunters Hill Area Health Service	Macquarie Area Health Service
The St George Hospital	St George Area Health Service
The Scott Memorial Hospital, Scone	Upper Hunter Area Health Service
The Shoalhaven District Memorial Hospital	Shoalhaven Area Health Service
Singleton District Hospital	Lower Hunter Area Health Service
The Sutherland Hospital, Caringbah	Sutherland Area Health Service
The Sydney Homoeopathic Hospital	Royal Prince Alfred Hospital and Area Health Service
The Sydney Hospital	Sydney Health Service
Upper Blue Mountains Area Health Service	Blue Mountains Area Health Service
The Wallsend District Hospital	Greater Newcastle Area Health Service
The Wilson Memorial Hospital, Murrurundi	Upper Hunter Area Health Service

(b) amend the Second Schedule to the Public Hospitals Act 1929 by omitting the names of the following hospitals from the First Column of that Schedule and the matter appearing opposite thereto in the Second Column of that Schedule:

Column 1	Column 2
The Auburn District Hospital.	Auburn District.
The Balmain Hospital.	Balmain District.
The Bankstown Hospital.	Bankstown District.
Blacktown Hospital.	Blacktown.
The Canterbury Area Health Service.	Canterbury District.
Central Coast Hospitals and Area Health Service.	Erina Shire.
The Cessnock District Hospital.	Cessnock District.
The Dalwood Children's Home.	Dalwood.
The Dungog and District Hospital.	Dungog Cottage.
The Eastern Suburbs Hospital.	Eastern Suburbs.
The Fairfield District Hospital.	Fairfield.
The Governor Phillip Special Hospital, Penrith.	Governor Phillip Special Hospital, Penrith.
Hawkesbury Hospital, Windsor.	Hawkesbury Benevolent Society and Hospital.
The Hornsby and Ku-ring-gai Hospital and Area Health Service.	Hornsby District.
The Illawarra Area Health Service.	Bulli District Hospital. The Coledale District Hospital. Port Kembla District Hospital. The Wollongong Hospital.
The Inner Western Suburbs Area Health Service.	Western Suburbs.
The Kiama District Hospital.	Kiama District.
The Kurri Kurri District Hospital.	Kurri Kurri District.
The Langton Centre.	Langton Clinic.
The Liverpool Hospital.	Liverpool District.
The Macarthur Area Health Service.	The Camden District Hospital. Campbelltown Hospital. The Queen Victoria Memorial Hospitals.
The Maitland Hospital.	Maitland.
The Manly District Hospital and Area Health Service.	Manly Cottage.
The Marrickville District Hospital.	Marrickville District.
The Merriwa District Hospital.	Merriwa District.
Milton-Ulladulla Hospital.	Milton and Ulladulla Centre of the New South Wales Bush Nursing Association Incorporated.
Mona Vale Hospital and Warringah Area Health Service.	Mona Vale.
The Mount Druitt Hospital.	Mount Druitt.
The Muswellbrook District Hospital.	Muswellbrook (Brentwood Hospital).
The Nepean Hospital, Penrith.	Penrith (Nepean) District.
The Newcastle Western Suburbs Hospital.	Benevolent Home, Waratah, conducted by the Newcastle and Northumberland Benevolent Society.
The Parramatta Hospitals.	Parramatta District.
The Prince Henry Hospital.	Prince Henry.
The Prince of Wales Hospital.	Prince of Wales.
The Rachel Forster Hospital.	Rachel Forster Hospital for Women.
The Royal Newcastle Hospital.	Newcastle.
The Royal North Shore Hospital of Sydney.	Royal North Shore Hospital of Sydney.
The Royal Prince Alfred Hospital.	Royal Prince Alfred.
The Royal South Sydney Hospital.	Royal South Sydney (Zetland).
The Ryde Hospital and Ryde-Hunters Hill Area Health Service.	Ryde District.
The St George Hospital.	St George District.
The Scott Memorial Hospital, Scone.	Scone (Scott Memorial).
The Shoalhaven District Memorial Hospital.	Shoalhaven District War Memorial.
Singleton District Hospital.	Singleton (Dangar Cottage).
The Sutherland Hospital, Caringbah.	Sutherland Shire District.
The Sydney Homoeopathic Hospital.	Sydney Homoeopathic.
The Sydney Hospital.	Sydney.
Upper Blue Mountains Area Health Service.	Katoomba.
The Wallsend District Hospital.	Wallsend Mining District.
The Wilson Memorial Hospital, Murrurundi.	Murrurundi (The Wilson Memorial).

Dated at Sydney, this 25th day of September, 1986.

By His Excellency's Command,

PETER ANDERSON, Minister for Health.

GOD SAVE THE QUEEN! (3611)

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049247637 P.03

0249745395

"C"

This is the Annexure marked " " referred to in the Statutory Declaration of
Declared before me this day of 20

AREA HEALTH SERVICES ACT 1986—ORDER

J. A. ROWLAND, *Governor.*

I, Air Marshal Sir JAMES ANTHONY ROWLAND, Governor of the State of New South Wales, with the advice of the Executive Council, and in pursuance of sections 6, 8 and 9 of the Area Health Services Act 1986, and on the recommendation of the Minister for Health under section 9 (2) of that Act, do, by this my Order, with effect on 1 August 1988—

(a) amalgamate the area health services specified in each group of area health services in column 1 of Schedule A to this Order to constitute the area health service specified opposite the group in column 2 of that Schedule; and

(b) change the name of the Royal Prince Alfred Hospital and Area Health Service to the Central Sydney Area Health Service; and

(c) amend that Act by omitting Schedule 2 and by inserting instead the Schedule specified in Schedule B to this Order; and

(d) amend that Act by omitting Schedule 3 and by inserting instead the Schedule specified in Schedule C to this Order; and

(e) dissolve the Lang Area Health Service.

Dated at Sydney, this twenty seventh day of July, 1988.

By His Excellency's Command,

PETER COLLINS, Minister for Health.

SCHEDULE A

Column 1	Column 2
A. Royal North Shore Hospital and Area Health Service Hornsby Ku-ring-gai Area Health Service Manly Warringah Area Health Service Macquarie Area Health Service	A. Northern Sydney Area Health Service
B. Blue Mountains Area Health Service Castlereagh Area Health Service	B. Wentworth Area Health Service
C. Prospect Area Health Service Cumberland Area Health Service	C. Western Sydney Area Health Service
D. Macarthur Area Health Service Whitlam Area Health Service	D. South Western Sydney Area Health Service
E. Eastern Health Service Sydney Health Service	E. Eastern Sydney Area Health Service
F. St. George Area Health Service Sutherland Area Health Service	F. Southern Sydney Area Health Service
G. Greater Newcastle Area Health Service Lower Hunter Area Health Service Northumberland Area Health Service Upper Hunter Area Health Service	G. Hunter Area Health Service
H. Illawarra Area Health Service Shoalhaven Area Health Service	H. Illawarra Area Health Service

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TOTAL P.04

SCHEDULE B

SCHEDULE 2

(Sec. 5)

NAMES OF AREA HEALTH SERVICES

Central Coast Area Health Service
Central Sydney Area Health Service
Eastern Sydney Area Health Service
Hunter Area Health Service
Illawarra Area Health Service
Northern Sydney Area Health Service
Southern Sydney Area Health Service
South Western Sydney Area Health Service
Wentworth Area Health Service
Western Sydney Area Health Service

SCHEDULE C

SCHEDULE 3

(Sec. 7)

DESCRIPTION OF AREAS OF AREA HEALTH SERVICES

Name	Description of Area—Local Government Area
Central Coast Area Health Service	Gosford City Wyong Shire
Central Sydney Area Health Service	Concord Municipality Leichhardt Municipality Marrickville Municipality Drummoyne Municipality Ashfield Municipality Burwood Municipality Strathfield Municipality Sydney City (comprising the western sector of the city with boundaries as shown on the map deposited in the principal office of the Department of Health and marked "Area Health Service Boundaries—City of Sydney")
Eastern Sydney Area Health Service	Randwick Municipality Sydney City (comprising the eastern sector of the city with boundaries as shown on the map deposited in the principal office of the Department of Health and marked "Area Health Service Boundaries—City of Sydney") Botany Municipality Waverley Municipality Woollahra Municipality
Hunter Area Health Service	Maitland City Singleton Shire Dungog Shire Cessnock City Newcastle City Lake Macquarie City Port Stephens Shire Merriwa Shire Murrurundi Shire Muswellbrook Shire Scone Shire
Illawarra Area Health Service	Wollongong City Shellharbour Municipality Kiama Municipality Shoalhaven City

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"D"

This is the Annexure marked " " referred to in the Statutory Declaration of
Declared before me this day of 20

2004 No 704

New South Wales

Health Services (Amalgamation of Area Health Services) Order 2004

under the

Health Services Act 1997

MARIE BASHIR, Governor

I, Professor Marie Bashir AC, Governor of the State of New South Wales, with the advice of the Executive Council, and in pursuance of section 20 (1) of the *Health Services Act 1997*, make the following Order.

Dated, this 20th day of October 2004.

By Her Excellency's Command,

MORRIS IEMMA, M.P.,
Minister for Health

Explanatory note

The object of this Order is to amalgamate the area health services listed in Schedule 1 to the *Health Services Act 1997*. The area health services listed in Column 2 are amalgamated into the area health services listed in Column 1.

Column 1	Column 2
Amalgamated area health service	**Old area health services**
Greater Southern Area Health Service	Greater Murray Area Health Service Southern Area Health Service
Greater Western Area Health Service	Far West Area Health Service Macquarie Area Health Service Mid Western Area Health Service
Hunter and New England Area Health Service	Hunter Area Health Service New England Area Health Service

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Column 1	Column 2
Amalgamated area health service	**Old area health services**
North Coast Area Health Service	Mid North Coast Area Health Service Northern Rivers Area Health Service
Northern Sydney and Central Coast Area Health Service	Central Coast Area Health Service Northern Sydney Area Health Service
South Eastern Sydney and Illawarra Area Health Service	Illawarra Area Health Service South Eastern Sydney Area Health Service
Sydney South West Area Health Service	Central Sydney Area Health Service South Western Sydney Area Health Service
Sydney West Area Health Service	Wentworth Area Health Service Western Sydney Area Health Service

This Order is made under section 20 (1) of the *Health Services Act 1997*.

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Health Services (Amalgamation of Area Health Services) Order 2004

under the

Health Services Act 1997

1 Name of Order

This Order is the *Health Services (Amalgamation of Area Health Services) Order 2004*.

2 Commencement

This Order commences on 1 January 2005.

3 Amalgamation of area health services

The area health services listed below in Column 2 are amalgamated to form the area health services listed opposite in Column 1:

Column 1	Column 2
Amalgamated area health service	**Old area health services**
Greater Southern Area Health Service	Greater Murray Area Health Service Southern Area Health Service
Greater Western Area Health Service	Far West Area Health Service Macquarie Area Health Service Mid Western Area Health Service
Hunter and New England Area Health Service	Hunter Area Health Service New England Area Health Service
North Coast Area Health Service	Mid North Coast Area Health Service Northern Rivers Area Health Service
Northern Sydney and Central Coast Area Health Service	Central Coast Area Health Service Northern Sydney Area Health Service
South Eastern Sydney and Illawarra Area Health Service	Illawarra Area Health Service South Eastern Sydney Area Health Service

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Column 1	Column 2
Amalgamated area health service	**Old area health services**
Sydney South West Area Health Service	Central Sydney Area Health Service South Western Sydney Area Health Service
Sydney West Area Health Service	Wentworth Area Health Service Western Sydney Area Health Service

4 Amendment of Health Services Act 1997

The *Health Services Act 1997* is amended as set out in Schedule 1.

Req:R635433 /Doc:DL AE070255 /Rev:07-Jul-2008 /NSW LRS /Pgs:ALL /Prt:26-Jun-2024 11:20 /Seq:11 of 15
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Schedule 1 Amendment

(Clause 4)

Schedule 1 Names and areas of area health services

Omit Columns 1, 2 and 3. Insert instead:

Column 1	Column 2	Column 3
Name of service	**Description of local government area or city**	**Description of area other than local government area**
Greater Southern Area Health Service	Albury Bega Valley Berrigan Bland Bombala Boorowa Carrathool Conargo Coolamon Cooma-Monaro Cootamundra Corowa Deniliquin Eastern Capital City Regional Eurobodalla Greater Argyle Greater Hume Greater Queanbeyan Griffith Gundagai Harden Hay Jerilderie Junee Leeton Lockhart	

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Column 1	Column 2	Column 3
Name of service	**Description of local government area or city**	**Description of area other than local government area**
	Murray	
	Murrumbidgee	
	Narrandera	
	Snowy River	
	Temora	
	Tumbarumba	
	Tumut	
	Upper Lachlan	
	Urana	
	Wagga Wagga	
	Wakool	
	Yass Valley	
	Young	
Greater Western Area Health Service	Balranald	Unincorporated area
	Bathurst Regional	
	Blayney	
	Bogan	
	Bourke	
	Brewarrina	
	Broken Hill	
	Cabonne	
	Central Darling	
	Cobar	
	Coolah	
	Coonabarabran	
	Coonamble	
	Cowra	
	Dubbo	
	Forbes	
	Gilgandra	
	Lachlan	
	Mid-Western Regional	
	Narromine	
	Oberon	

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Column 1	Column 2	Column 3
Name of service	**Description of local government area or city**	**Description of area other than local government area**
	Orange	
	Parkes	
	Walgett	
	Warren	
	Weddin	
	Wellington	
	Wentworth	
Hunter and New England Area Health Service	Armidale Dumaresq	
	Cessnock	
	Dungog	
	Glen Innes Severn	
	Gloucester	
	Great Lakes	
	Greater Taree	
	Gunnedah	
	Guyra	
	Gwydir	
	Inverell	
	Lake Macquarie	
	Liverpool Plains	
	Maitland	
	Moree Plains	
	Muswellbrook	
	Narrabri	
	Newcastle	
	Port Stephens	
	Singleton	
	Tamworth Regional	
	Tenterfield	
	Upper Hunter	
	Uralla	
	Walcha	

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Column 1 Name of service	Column 2 Description of local government area or city	Column 3 Description of area other than local government area
North Coast Area Health Service	Ballina Bellingen Byron Clarence Valley Coffs Harbour Hastings Kempsey Kyogle Lismore Nambucca Richmond Valley Tweed	
Northern Sydney and Central Coast Area Health Service	Gosford Hornsby Hunters Hill Ku-ring-gai Lane Cove Manly Mosman North Sydney Pittwater Ryde Warringah Willoughby Wyong	
South Eastern Sydney and Illawarra Area Health Service	Botany Bay Hurstville Kiama Kogarah Randwick Rockdale Shellharbour Shoalhaven Sutherland	Lord Howe Island

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Column 1	Column 2	Column 3
Name of service	**Description of local government area or city**	**Description of area other than local government area**
	Sydney (part)	
	Waverley	
	Woollahra	
	Wollongong	
Sydney South West Area Health Service	Ashfield	
	Bankstown	
	Burwood	
	Camden	
	Campbelltown	
	Canada Bay	
	Canterbury	
	Fairfield	
	Leichhardt	
	Liverpool	
	Marrickville	
	Strathfield	
	Sydney (part)	
	Wingecarribee	
	Wollondilly	
Sydney West Area Health service	Auburn	
	Baulkham Hills	
	Blacktown	
	Blue Mountains	
	Hawkesbury	
	Holroyd	
	Lithgow	
	Parramatta	
	Penrith	

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/882585

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	11:21 AM	4	4/10/2019

LAND

LOT 11 IN DEPOSITED PLAN 882585
AT CESSNOCK
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP882585

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP410943)

SECOND SCHEDULE (7 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A287987 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 A121338 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
4 A611067 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
5 B104021 LAND EXCLUDES MINERALS AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
6 5468949 LEASE TO NORTHERN COALFIELDS COMMUNITY CARE ASSOCIATION LIMITED. EXPIRES: 31/1/2020. OPTION OF RENEWAL: 25 YEARS.
7 DP1129042 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1129042

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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LAND REGISTRY SERVICES Historical Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/6/2024 3:20PM

FOLIO: B/103664

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 6744 FOL 187

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
14/2/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
16/5/2007	AD122379	CAVEAT	
4/7/2008	AE70255	CHANGE OF NAME	EDITION 1
23/12/2008	AE379421	LEASE	EDITION 2
23/12/2008	AE402972	WITHDRAWAL OF CAVEAT	
13/1/2016	AK128857	DEPARTMENTAL DEALING	
17/5/2017	AM396302	DEPARTMENTAL DEALING	
4/10/2019	AP410943	REQUEST	
4/10/2019	AP583654	DEPARTMENTAL DEALING	EDITION 3

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: B/103664

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	3:19 PM	3	4/10/2019

LAND

LOT B IN DEPOSITED PLAN 103664
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP103664

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP410943)

SECOND SCHEDULE (2 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 A19195 LAND EXCLUDES MINERALS

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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STATE OF NEW SOUTH WALES

CROWN GRANT

No. 19 60848

13698103

Vol. 13698 Fol. 103
Registered 13-9-1978

Registrar General

(Page 1) Vol. 13698 Fol. 103

We, Elizabeth the Second, by the Grace of God Queen of Australia and Her other Realms and Territories, Head of the Commonwealth, do hereby grant to the person described in the First Schedule an Estate in Fee Simple in the land within described, subject nevertheless to such reservations, conditions and other provisions as are shown in the Second Schedule. In testimony whereof We have caused this Our Grant to be sealed with the seal of Our said State

Witness Our Governor of Our State of New South Wales and its Dependencies in the Commonwealth of Australia, at Sydney in Our said State, this eleventh day of September in the twenty seventh year of Our Reign and in the year of Our Lord one thousand nine hundred and seventy eight.

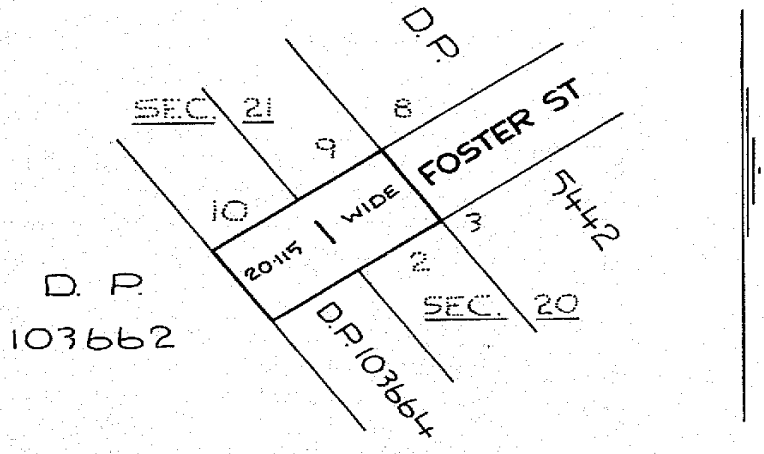
CANCELLED

Governor

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



AREA: 809·3 m²
REDUCTION RATIO 1:1250

LAND REFERRED TO

Lot 1 in Deposited Plan 254743 in the City of Greater Cessnock Parish of Pokolbin and County of Northumberland. EXCEPTING THEREOUT the land below a depth of 20 metres from the surface.

FIRST SCHEDULE

CESSNOCK DISTRICT HOSPITAL.

SECOND SCHEDULE

GRM 1. We do hereby reserve and except unto Us Our Heirs and Successors all minerals which the land hereby granted contains with full power and authority for Us Our Heirs and Successors and such person or persons as shall from time to time be authorised by Us or Them to enter upon the land hereby granted and to search for mine dig and remove the said minerals and also all such parts and so much of the land hereby granted as may hereafter be required for public ways in over and through the same to be set out by Our Governor for the time being of Our said State or some person by him authorised in that respect with full power for Us Our Heirs and Successors and for Our Governor as aforesaid by such person or persons as shall be by Us Them or him authorised in that behalf to make and conduct all such public ways And the right of full and free ingress egress and regress into out of and upon the land hereby granted for the several purposes aforesaid or any of them Provided Further and it is expressly declared that mining operations may have been and may be carried on upon and in the land below the land hereby granted and the lands adjoining the land hereby granted and the land below the same and metals and minerals may have been and may be removed therefrom and that these presents are made upon and subject to the condition that neither the Grantee or Grantees nor his her their or its sequels in title shall be entitled to make or prosecute any claim for damages or take any proceedings either by way of injunction or otherwise against Us Our Heirs and Successors or the Government of Our said State or any lessee or lessees under any Mining Act or Acts of Our said State or his or their executors administrators or assigns for or in respect of any damage or loss occasioned by the letting down subsidence or lateral movement of the land hereby granted or otherwise howsoever by reason of the following acts and matters that is to say by reason of Us Our Heirs or Successors or the Government of Our said State or any person on Our Their or its behalf or any lessee or lessees as aforesaid or his or their executors administrators or assigns having worked or now or hereafter working any mines or having carried on or now or hereafter carrying on mining operations or having searched for worked won or removed or now or hereafter searching for working winning or removing any metals or minerals under in or from the land below the land hereby granted or on in under or from any other lands situated laterally to the land hereby granted and the land below the same and whether on or below the surface of such other lands Provided Lastly and we do hereby expressly reserve unto Us Our Heirs and Successors the liberty and authority by reason of the acts and matters aforesaid or in the course thereof for Us Our Heirs and Successors and the Government of Our said State and any person on Our Their or its behalf and any lessee or lessees as aforesaid and his or their executors administrators and assigns to from time to time let down without payment of any compensation whatsoever any part of the land hereby granted and/or of the surface thereof.

2.~~Restrictions on dealings see section~~

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

RG 2/124 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT		REGISTERED	Signature of Registrar General
	NATURE	NUMBER		

SECOND SCHEDULE (continued)

INSTRUMENT		PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
NATURE	NUMBER					

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

Historical Search

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
26/6/2024 3:24PM

FOLIO: 1/254743

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 13698 FOL 103

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
7/10/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
4/7/2008	AE70255	CHANGE OF NAME	
28/7/2008	DP1129042	DEPOSITED PLAN	EDITION 1
4/10/2019	AP410943	REQUEST	
4/10/2019	AP583654	DEPARTMENTAL DEALING	EDITION 2

*** END OF SEARCH ***

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Received: 26/06/2024 15:24:30

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/254743

SEARCH DATE	TIME	EDITION NO	DATE
26/6/2024	3:24 PM	2	4/10/2019

LAND

LOT 1 IN DEPOSITED PLAN 254743
LOCAL GOVERNMENT AREA CESSNOCK
PARISH OF POKOLBIN COUNTY OF NORTHUMBERLAND
TITLE DIAGRAM DP254743

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP410943)

SECOND SCHEDULE (4 NOTIFICATIONS)

---

1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
2 EXCEPTING LAND BELOW A DEPTH FROM THE SURFACE OF 20 METRES
3 DP1129042 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1129042
4 DP1129042 RIGHT OF CARRIAGEWAY 4 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1129042

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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Ph: 02 9099 7400
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Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Report

Re: - Turner Townsend Cessnock Hospital, Cessnock

Description: -
Lots 7 & 8 D.P. 13203, Lot 1 D.P. 103663, Lots 2 & 10 Section 20 D.P. 5442
Also
Lots A & B D.P. 103664, Lot 1 D.P. 254743(Limited to a depth of 20 metres), Lot 11 D.P. 882585
and Lots 1 & 2 D.P. 1173784

As regards Lot 1 and part Lot 2 D.P. 1173784 tinted yellow on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
14.02.1913 (1913 to 1941)	John Brown (Miner) John Doyle (Gentleman) John Marcus Baddeley (Miner)	Volume 2341 Folio 31
11.09.1941 (1941 to 2007)	The Cessnock District Hospital	Volume 2341 Folio 31 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 1/103662 Now 12/882585
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 1/1173784 & 2/1173784

Denotes current registered proprietor

As regards Lot 10 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.03.1913 (1913 to 1945)	George Peart (Tailor)	Volume 2350 Folio 189
12.07.1945 (1945 to 2019)	The Cessnock District Hospital	Volume 2350 Folio 189 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 10 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards the part of Lot 11 D.P. 882585 tinted blue and numbered (1) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.09.1920 (1920 to 1945)	Patrick Slavin (Laborer)	Volume 2499 Folio 93
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 2499 Folio 93
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 2499 Folio 93 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 8/21/5442 Now 11/882585 & 12/882585
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585

Denotes current registered proprietor

As regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted pink and numbered (2) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.07.1926 (1926 to 1945)	Patrick Slavin (Laborer)	Volume 2728 Folio 242
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 2728 Folio 242
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 2728 Folio 242 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 10/21/5442 Now 11/882585 & 12/882585

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted pink and numbered (2) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	Continued as regards the part within Lot 11 D.P. 882585	
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585
	Continued as regards the part within Lot 2 D.P. 1173784	
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 2/1173784

Denotes current registered proprietor

As regards part Lot 11 D.P. 882585 tinted green and numbered (3) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
09.09.1920 (1920 to 1945)	Patrick Slavin (Laborer)	Volume 3098 Folio 78
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3098 Folio 78
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 3098 Folio 78 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 9/21/5442 Now 11/882585
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards Lot 2 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
20.12.1926 (1926 to 1939)	Claude Maxwell Hollinshed (Bricklayer)	Volume 3687 Folio 141
16.10.1939 (1939 to 2008)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3687 Folio 141
21.06.1954 (1954 to 2019)	The Cessnock District Hospital	Volume 3687 Folio 141 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot 1 D.P. 103663

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.09.1926 (1926 to 1941)	Charles Frederick Steadson (Miner) Matthew Baillie (Miner) Albert Louis Pogonoski (Printer)	Volume 3770 Folio 164
11.09.1941 (1941 to 2019)	The Cessnock District Hospital	Volume 3770 Folio 164 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot 8 D.P. 13203.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
04.12.1925 (1925 to 1944)	Samuel McKnight (Surveyor)	Volume 3807 Folio 96
13.11.1944 (1944 to 2019)	The Cessnock District Hospital	Volume 3807 Folio 96 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted orange and numbered (4) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.08.1924 (1924 to 1945)	Patrick Slavin (Laborer)	Volume 3622 Folio 101
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3622 Folio 101 Now Volume 5794 Folio 36
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 5794 Folio 36 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 10/21/5442 Now 11/882585 & 12/882585
	Continued as regards the part within Lot 11 D.P. 882585	
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585
	Continued as regards the part within Lot 2 D.P. 1173784	
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 2/1173784

Denotes current registered proprietor

As regards Lot 7 D.P. 13203.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	As regards the north east part	
04.04.1928 (1928 to 1950)	Frank Leonard Woodcock (Business Manager)	Volume 4128 Folio 150
27.10.1950 (1950 to 2019)	The Cessnock District Hospital	Volume 4128 Folio 150 Now Volume 6486 Folio 220
	As regards the south west part	
04.04.1928 (1928 to 1950)	Frank Leonard Woodcock (Business Manager)	Volume 4128 Folio 150
27.10.1950 (1950 to 1952)	The Cessnock District Hospital	Volume 4128 Folio 150
20.02.1952 (1952 to 1954)	John Brown (Secretary)	Volume 4128 Folio 150 Now Volume 6486 Folio 221
27.05.1954 (1954 to 2019)	The Cessnock District Hospital	Volume 6486 Folio 221

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 7 D.P. 13203.

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
	Continued as regards the whole of Lot 7	
To 2019	The Cessnock District Hospital	Volume 6486 Folios 220 & 221 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot A D.P. 103664

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
11.06.1913 (1913 to 1945)	William McGuiness (Miner)	Volume 2372 Folio 111
05.11.1945 (1945 to 1953)	Catherine McGuiness (Widow) (Transmission Application not investigated)	Volume 2372 Folio 111
18.11.1953 (1953 to 2019)	The Cessnock District Hospital	Volume 2372 Folio 111 Then Volume 6744 Folio 188 Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards Lot B D.P. 103664

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
11.06.1913 (1913 to 1945)	William McGuiness (Miner)	Volume 2372 Folio 111
05.11.1945 (1945 to 1964)	Catherine McGuiness (Widow) (Transmission Application not investigated)	Volume 2372 Folio 111 Now Volume 6744 Folio 187
03.12.1964 (1964 to 2008)	The Cessnock District Hospital	Volume 6744 Folio 187 Now B/103664
04.07.2008 (2008 to 2019)	Hunter New England Area Health Service	B/103664
12.07.2019 (2019 to date)	# Health Administration Corporation	B/103664

Denotes current registered proprietor

As regards Lot 1 D.P. 254743 (Limited to a depth of 20 metres)

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	This part was formerly part of Foster Street, now closed.	
13.09.1978 (1978 to 2008)	Cessnock District Hospital	Volume 13698 Folio 103 Now 1/254743
04.07.2008 (2008 to 2019)	Hunter New England Area Health Service	1/254743
12.07.2019 (2019 to date)	# Health Administration Corporation	1/254743

Denotes current registered proprietor

Leases: -

- 19.01.1999 (5468949), affecting Lot 11 D.P. 882585 to Northern Coalfields Community Care Association Limited – expires 31.01.2020, also 25 year option.
- 23.12.2008 (379421), affecting the land in Auto Consol 10047-242 and Lot B D.P. 103664 expired, not investigated.

Easements: -

- Lots 1 & 2 D.P. 1173784, Lot 11 D.P. 882585 & Lot 1 D.P. 254743 are affected by easements, please refer to the current titles for details.

Yours Sincerely
Mark Groll
26 June 2024

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Report

Re: - Turner Townsend Cessnock Hospital, Cessnock

Description: -
Lots 7 & 8 D.P. 13203, Lot 1 D.P. 103663, Lots 2 & 10 Section 20 D.P. 5442
Also
Lots A & B D.P. 103664, Lot 1 D.P. 254743(Limited to a depth of 20 metres), Lot 11 D.P. 882585
and Lots 1 & 2 D.P. 1173784

As regards Lot 1 and part Lot 2 D.P. 1173784 tinted yellow on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
14.02.1913 (1913 to 1941)	John Brown (Miner) John Doyle (Gentleman) John Marcus Baddeley (Miner)	Volume 2341 Folio 31
11.09.1941 (1941 to 2007)	The Cessnock District Hospital	Volume 2341 Folio 31 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 1/103662 Now 12/882585
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 1/1173784 & 2/1173784

Denotes current registered proprietor

As regards Lot 10 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.03.1913 (1913 to 1945)	George Peart (Tailor)	Volume 2350 Folio 189
12.07.1945 (1945 to 2019)	The Cessnock District Hospital	Volume 2350 Folio 189 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 10 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards the part of Lot 11 D.P. 882585 tinted blue and numbered (1) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.09.1920 (1920 to 1945)	Patrick Slavin (Laborer)	Volume 2499 Folio 93
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 2499 Folio 93
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 2499 Folio 93 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 8/21/5442 Now 11/882585 & 12/882585
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585

Denotes current registered proprietor

As regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted pink and numbered (2) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.07.1926 (1926 to 1945)	Patrick Slavin (Laborer)	Volume 2728 Folio 242
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 2728 Folio 242
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 2728 Folio 242 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 10/21/5442 Now 11/882585 & 12/882585

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted pink and numbered (2) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	Continued as regards the part within Lot 11 D.P. 882585	
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585
	Continued as regards the part within Lot 2 D.P. 1173784	
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 2/1173784

Denotes current registered proprietor

As regards part Lot 11 D.P. 882585 tinted green and numbered (3) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
09.09.1920 (1920 to 1945)	Patrick Slavin (Laborer)	Volume 3098 Folio 78
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3098 Folio 78
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 3098 Folio 78 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 9/21/5442 Now 11/882585
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards Lot 2 Section 20 D.P. 5442.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
20.12.1926 (1926 to 1939)	Claude Maxwell Hollinshed (Bricklayer)	Volume 3687 Folio 141
16.10.1939 (1939 to 2008)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3687 Folio 141
21.06.1954 (1954 to 2019)	The Cessnock District Hospital	Volume 3687 Folio 141 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot 1 D.P. 103663

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.09.1926 (1926 to 1941)	Charles Frederick Steadson (Miner) Matthew Baillie (Miner) Albert Louis Pogonoski (Printer)	Volume 3770 Folio 164
11.09.1941 (1941 to 2019)	The Cessnock District Hospital	Volume 3770 Folio 164 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot 8 D.P. 13203.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
04.12.1925 (1925 to 1944)	Samuel McKnight (Surveyor)	Volume 3807 Folio 96
13.11.1944 (1944 to 2019)	The Cessnock District Hospital	Volume 3807 Folio 96 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards part Lot 2 D.P. 1173784 and part Lot 11 D.P. 882585 tinted orange and numbered (4) on the attached Cadastral Records Enquiry Report.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
01.08.1924 (1924 to 1945)	Patrick Slavin (Laborer)	Volume 3622 Folio 101
11.04.1945 (1945 to 1954)	James Reginald Taylor (Dry Cleaner) (& his bankrupt estate) Emma Rose Taylor (Married Woman)	Volume 3622 Folio 101 Now Volume 5794 Folio 36
21.06.1954 (1954 to 2008)	The Cessnock District Hospital	Volume 5794 Folio 36 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Auto Consol 10047-247 10/21/5442 Now 11/882585 & 12/882585
	Continued as regards the part within Lot 11 D.P. 882585	
01.07.2008 (2008 to 2019)	Hunter New England Area Health Service	11/882585
12.07.2019 (2019 to date)	# Health Administration Corporation	11/882585
	Continued as regards the part within Lot 2 D.P. 1173784	
15.06.2007 (2007 to 2007)	Hunter and New England Area Health Service	12/882585
15.06.2007 (2007 to date)	# Health Administration Corporation	12/882585 Now 2/1173784

Denotes current registered proprietor

As regards Lot 7 D.P. 13203.

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	As regards the north east part	
04.04.1928 (1928 to 1950)	Frank Leonard Woodcock (Business Manager)	Volume 4128 Folio 150
27.10.1950 (1950 to 2019)	The Cessnock District Hospital	Volume 4128 Folio 150 Now Volume 6486 Folio 220
	As regards the south west part	
04.04.1928 (1928 to 1950)	Frank Leonard Woodcock (Business Manager)	Volume 4128 Folio 150
27.10.1950 (1950 to 1952)	The Cessnock District Hospital	Volume 4128 Folio 150
20.02.1952 (1952 to 1954)	John Brown (Secretary)	Volume 4128 Folio 150 Now Volume 6486 Folio 221
27.05.1954 (1954 to 2019)	The Cessnock District Hospital	Volume 6486 Folio 221

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 7 D.P. 13203.

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
	Continued as regards the whole of Lot 7	
To 2019	The Cessnock District Hospital	Volume 6486 Folios 220 & 221 Then Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

As regards Lot A D.P. 103664

Date of Acquisition and term held	**Registered Proprietor(s) & Occupations where available**	**Reference to Title at Acquisition and sale**
11.06.1913 (1913 to 1945)	William McGuiness (Miner)	Volume 2372 Folio 111
05.11.1945 (1945 to 1953)	Catherine McGuiness (Widow) (Transmission Application not investigated)	Volume 2372 Folio 111
18.11.1953 (1953 to 2019)	The Cessnock District Hospital	Volume 2372 Folio 111 Then Volume 6744 Folio 188 Volume 8350 Folio 237 Volume 10047 Folio 247 Now Auto Consol 10047-247
12.07.2019 (2019 to date)	# Health Administration Corporation	Auto Consol 10047-247

Denotes current registered proprietor

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards Lot B D.P. 103664

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
11.06.1913 (1913 to 1945)	William McGuiness (Miner)	Volume 2372 Folio 111
05.11.1945 (1945 to 1964)	Catherine McGuiness (Widow) (Transmission Application not investigated)	Volume 2372 Folio 111 Now Volume 6744 Folio 187
03.12.1964 (1964 to 2008)	The Cessnock District Hospital	Volume 6744 Folio 187 Now B/103664
04.07.2008 (2008 to 2019)	Hunter New England Area Health Service	B/103664
12.07.2019 (2019 to date)	# Health Administration Corporation	B/103664

Denotes current registered proprietor

As regards Lot 1 D.P. 254743 (Limited to a depth of 20 metres)

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	This part was formerly part of Foster Street, now closed.	
13.09.1978 (1978 to 2008)	Cessnock District Hospital	Volume 13698 Folio 103 Now 1/254743
04.07.2008 (2008 to 2019)	Hunter New England Area Health Service	1/254743
12.07.2019 (2019 to date)	# Health Administration Corporation	1/254743

Denotes current registered proprietor

Leases: -

- 19.01.1999 (5468949), affecting Lot 11 D.P. 882585 to Northern Coalfields Community Care Association Limited – expires 31.01.2020, also 25 year option.
- 23.12.2008 (379421), affecting the land in Auto Consol 10047-242 and Lot B D.P. 103664 expired, not investigated.

Easements: -

- Lots 1 & 2 D.P. 1173784, Lot 11 D.P. 882585 & Lot 1 D.P. 254743 are affected by easements, please refer to the current titles for details.

Yours Sincerely
Mark Groll
26 June 2024

APPENDIX F: AHIMS SEARCH RESULT

AHIMS Web Services (AWS)
Search Result

Your Ref/PO Number : Cessnock Hospital

Client Service ID : 906196

Tetra Tech Coffey

Unit 4, 60 Griffiths Road
Lambton New South Wales 2298

Attention: Wendy Cadelago

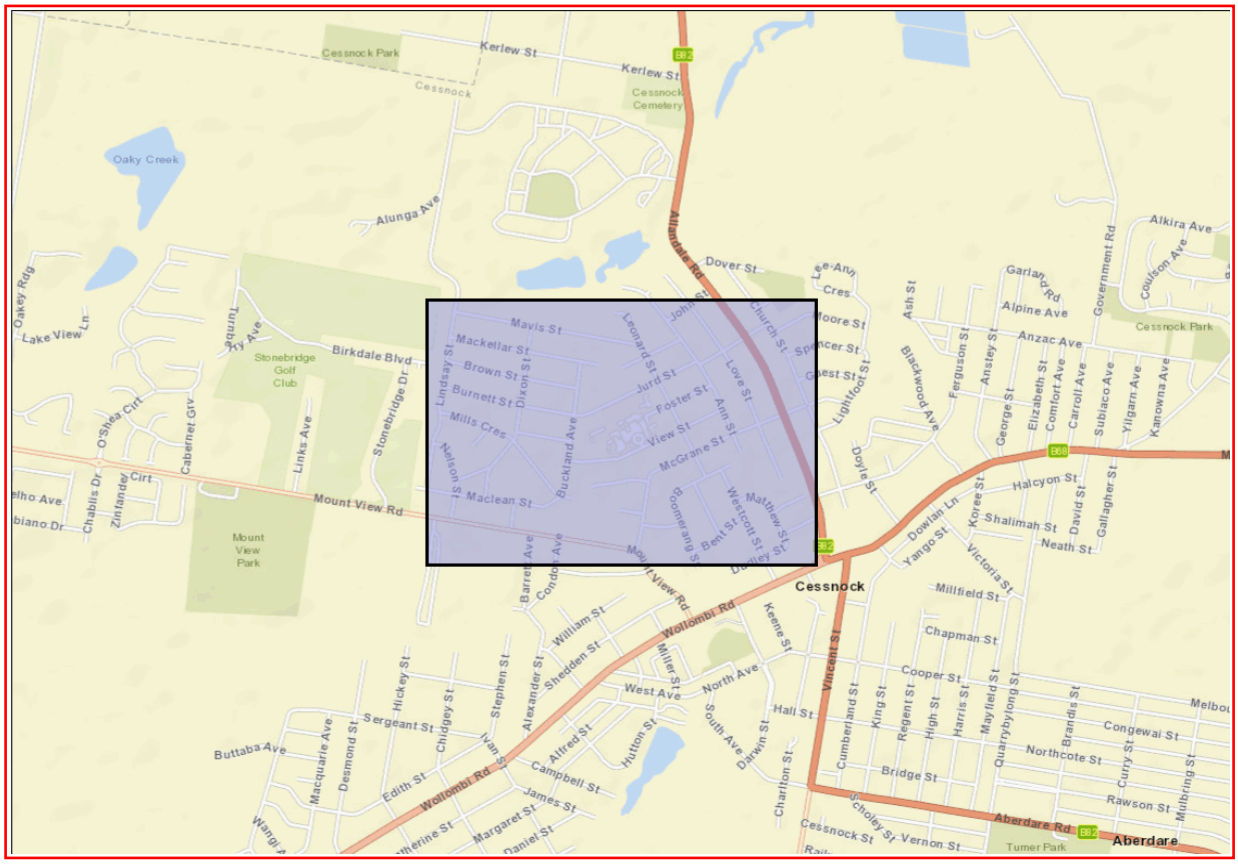
Email: wendy.cadelago@tetratech.com

Date: 02 July 2024

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -32.8323, 151.3402 - Lat, Long To : -32.8233, 151.3556, conducted by Wendy Cadelago on 02 July 2024.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	**Aboriginal sites are recorded in or near the above location.**
0	**Aboriginal places have been declared in or near the above location. ***

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Level 6, 10 Valentine Ave, Parramatta 2150
Locked Bag 5020 Parramatta NSW 2124
Tel: (02) 9585 6345

ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

APPENDIX G: PHOTOGRAPHS



Image 1: AST



Image 2: AST - Liquid oxygen



Image 3: Incinerator



Image 4: Yard maintenance – materials storage



Image 5: Fire fighting system



Image 6: Gas system



Image 7: Looking towards the southeast from BH08. The fill mound (circled in red) is visible in the background



Image 8: Drilling on the northern side of the pathology clinic (BH02). A fill mound is evident.



Image 9: Drilling in the carpark on the western side of the Site



Image 10: Drilling BH04 on the western side of the Site



Image 11: Silty Clay Fill material at BH09 in the fill mound on the northern portion of the site



Image 12: Sandy material below the asphalt in the car park in BH17



Image 13: Fill material observed in the subsurface at BH15



Image 14: Residual Clay observed below Topsoil/Fill material in BH12



Image 15: Weathered clay material observed below residual clay in BH03



Image 16: Asbestos fragment found in BH09

APPENDIX H: BORELOGS

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH01**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	***Health Infrastructure c/o Turner & Townsend***
principal:	
project:	***Cessnock Hospital***
location:	***24 View St Cessnock, NSW 2325***
date started:	**14 Jun 2024**
date completed:	**14 Jun 2024**
logged by:	**PS**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Hand Auger | drilling fluid: Nil | hole diameter : 100 mm

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				GM	**SILTY GRAVEL**: dark grey-brown.	M		**FILL - TOPSOIL**
							CL	**Silty CLAY**: low plasticity, dark grey-brown. becoming more clayey			**FILL**
		E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale brown. increasing red mottle	W		**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0						
					1.5			Borehole BH01 terminated at 1.20 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

CDF_0_10_00.4_LIBRARY.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: ENVIRONMENTAL 754-NTLEN347071 CESSNOCK HOSPITAL LOGS.GPJ <<DrawingFile>> 03/07/2024 12:14

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH02**
sheet:	1 of 1
project no.	**754-NTLEN347071**
date started:	**12 Jun 2024**
date completed:	**12 Jun 2024**
logged by:	**PS**
checked by:	**MJ**

client: ***Health Infrastructure c/o Turner & Townsend***

principal:

project: ***Cessnock Hospital***

location: ***24 View St Cessnock, NSW 2325***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				CL	**Silty CLAY**: low plasticity, grey-brown.	M		**FILL - TOPSOIL** rootlets
							CL-ML	**Silty CLAY**: medium plasticity, grey-brown.			**FILL**
	Not Encountered	E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale brown to pale orange. becoming more clayey			**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0			pale brown to pale red			**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH02 terminated at 1.20 m Refusal			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

CDF_0_10_00.4_LIBRARY.GLB rev:CDF_0_10_00.4 2021-09-30 Log COF BOREHOLE: ENVIRONMENTAL 754-NTLEN347071 CESSNOCK HOSPITAL LOGS.GPJ <<DrawingFile>> 03/07/2024 12:14

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH03**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				CL	**Silty CLAY**: low plasticity, grey-brown, gravels.	M		**FILL - TOPSOIL** rootlets
							CL-CI	**Silty CLAY**: medium plasticity, grey-brown. becoming more clayey			**FILL**
		E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale red, mottled pale brown.			**RESIDUAL SOIL**
	Not Encountered							becoming more mottled			
		E: _1.0 - 1.2			1.0			pale red, mottled pale brown and pale orange			**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH03 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH04**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				CL	**Clayey SILT**: brown.	M		**FILL - TOPSOIL** rootlets
	Not Encountered	E: _0.5-0.7	0		0.5		CL	**Gravelly Silty CLAY**: sub angular, low plasticity, grey-brown to pale brown.			**FILL**
		E: _1.3 - 1.5			1.0		CI-CH	**CLAY**: medium to high plasticity, orange to red-brown with pale brown mottle.	W		**RESIDUAL SOIL**
					1.5			Borehole BH04 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH05**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (**SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
	Not Encountered	E: _0.0-0.2	0				CL	**Silty CLAY**: low plasticity, grey-brown, trace gravels.	M		**TOPSOIL** rootlets
							Cl	**Silty CLAY**: medium plasticity, grey-brown.			**RESIDUAL SOIL**
		E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale orange-brown.			
		E: _1.0 - 1.2			1.0			becoming mottled, red-brown			**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH05 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH06**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	***Health Infrastructure c/o Turner & Townsend***
principal:	
project:	***Cessnock Hospital***
location:	***24 View St Cessnock, NSW 2325***
date started:	***12 Jun 2024***
date completed:	***12 Jun 2024***
logged by:	***PS***
checked by:	***MJ***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				CL-ML	**Clayey SILT**: dark brown.	M		**FILL** rootlets
	Not Encountered	E: _0.5-0.7	0		0.5		CL	**Gravelly CLAY**: sub angular to subrounded, dark grey.			rocks, slag, old plastic pipe piece, asbestos fragment
		E: _1.0 - 1.2			1.0		CI	**CLAY**: medium plasticity, grey-brown.			
		E: _1.3 - 1.5					CI	**Sandy CLAY**: medium plasticity, pale brown to brown, with gravels.			
					1.5			Borehole BH06 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH07**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0				SM	**SILTY SAND**: medium to course grained, dark brown, with gravels.	M		**FILL** rock, tile fragment
	Not Encountered	E: _0.5-0.7	0		0.5		SW	**Gravelly SAND**: medium to course grained, sub angular to subrounded, dark brown.			
		E: _1.0 - 1.2			1.0						
					1.5			Borehole BH07 terminated at 1.30 m Refusal			

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH08**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
	Not Encountered	E: _0.0-0.2	0				CL	**Silty CLAY**: low plasticity, grey-brown.	M		**TOPSOIL**
							Cl	**Silty CLAY**: medium plasticity, grey-brown. becoming more clayey			**RESIDUAL SOIL**
		E: _0.5-0.7	0		0.5						
		E: _1.3 - 1.5			1.0		CH	**CLAY**: high plasticity, pale brown with orange brown mottle. pale brown, with orange to red mottle	W		**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH08 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH09**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
	Not Encountered	E: _0.0-0.2	0				CI-CH	**Silty CLAY**: medium to high plasticity, dark brown-grey, with gravels.	M		**FILL** rock, terracotta pieces
		E: _0.5-0.7	0		0.5						2x asbestos fragments
		E: _1.0 - 1.2			1.0			becoming more sandy, gravelly			
					1.5			Borehole BH09 terminated at 1.20 m Refusal			

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method

AD	auger drilling*
HA	hand auger
MR	mud rotary
W	washbore
PT	push tube
HS	hollow stem
SS	solid stem
SD	sonic drilling
*	bit shown by suffix
e.g.	AD/T
B	blank bit
T	TC bit
V	V bit

support

M	mud
C	casing
N	nill

water

10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests

B	bulk disturbed sample
D	disturbed sample
E	environmental sample
SS	split spoon sample
U##	undisturbed sample ##mm diameter
WS	water sample
HB	hammer bouncing
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
R	refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition

D	dry
M	moist
W	wet
Wp	plastic limit
Wl	liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH10**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	***Health Infrastructure c/o Turner & Townsend***
principal:	
project:	***Cessnock Hospital***
location:	***24 View St Cessnock, NSW 2325***
date started:	***12 Jun 2024***
date completed:	***12 Jun 2024***
logged by:	***PS***
checked by:	***MJ***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0.1				CL	**Gravelly Silty CLAY**: low plasticity, grey, with gravels.	M		**FILL**
	Not Encountered	E: _0.5-0.7	1.5		0.5		CH	**CLAY**: high plasticity, pale brown with pale red mottle.	W		**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0			pale yellow-brown, mottled orange to red			
					1.5			Borehole BH10 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH11**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**12 Jun 2024**
principal:	
date completed:	**12 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0.5				CL	**Silty CLAY**: low plasticity, dark brown, with gravels.	M		**FILL**
		E: _0.5-0.7	1.2		0.5		CH	**CLAY**: medium plasticity, grey-brown with pale brown mottle.			**RESIDUAL SOIL**
	Not Encountered	E: _1.0 - 1.2			1.0			grey-brown mottled pale red			
		E: _1.3 - 1.5									
					1.5			Borehole BH11 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH12**
sheet:	1 of 1
project no.	**754-NTLEN347071**
date started:	**12 Jun 2024**
date completed:	**12 Jun 2024**
logged by:	**PS**
checked by:	**MJ**

client: ***Health Infrastructure c/o Turner & Townsend***

principal:

project: ***Cessnock Hospital***

location: ***24 View St Cessnock, NSW 2325***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description (SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components)	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0.2				CL	**Silty CLAY**: low plasticity, grey-brown.	M		**TOPSOIL** rootlets
							Cl	**Silty CLAY**: medium plasticity, grey-brown.			**RESIDUAL SOIL**
		E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, grey-brown with pale brown mottle.	W		
	Not Encountered										
		E: _1.0 - 1.2			1.0			pale grey-brown			
					1.5			Borehole BH12 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH13**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	***Health Infrastructure c/o Turner & Townsend***
date started:	**13 Jun 2024**
principal:	
date completed:	**13 Jun 2024**
project:	***Cessnock Hospital***
logged by:	**PS**
location:	***24 View St Cessnock, NSW 2325***
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SP	**SAND**: fine grained, brown to dark brown, with gravels.			glass
		E: _0.5-0.7	0		0.5		ML	**SILT**: dark brown, with gravels.			
	Not Encountered	E: _1.0 - 1.2			1.0			dark grey with clay, gravels			
		E: _1.3 - 1.5					ML	**Gravelly SILT**: dark grey.	W		
					1.5			Borehole BH13 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH14**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**13 Jun 2024**
principal:	
date completed:	**13 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							ML	**SILT**: dark grey, with gravels, clay.			
	Not Encountered	E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale orange-brown with red mottle.	W		**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0						
					1.5			Borehole BH14 terminated at 1.30 m Refusal			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH15**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**13 Jun 2024**
principal:	
date completed:	**13 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SW	**Gravelly SAND**: medium to course grained, sub angular to subrounded, pale brown.			
							CH	**CLAY**: high plasticity, pale brown to red, with sand, gravels.			
		E: _0.5-0.7	0		0.5		Cl	**Gravelly CLAY**: sub angular to subrounded, low plasticity, dark grey.			
	Not Encountered										
		E: _1.0 - 1.2	0.6		1.0		CL	**Silty CLAY**: low plasticity, grey-brown.	W		hydrocarbon odour
					1.5			Borehole BH15 terminated at 1.50 m Target depth			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH16**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**13 Jun 2024**
principal:	
date completed:	**13 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information						material substance					
method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SW	**SAND**: fine to medium grained, sub angular to subrounded.			
	Not Encountered	E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, pale brown to pale orange with pale grey and dark grey mottle.			**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0			becoming more mottled			**EXTREMELY WEATHERED MATERIAL** Weathered
					1.5			Borehole BH16 terminated at 1.20 m Collapse			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH17**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	**Health Infrastructure c/o Turner & Townsend**
date started:	**13 Jun 2024**
principal:	
date completed:	**13 Jun 2024**
project:	**Cessnock Hospital**
logged by:	**PS**
location:	**24 View St Cessnock, NSW 2325**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SW	**SAND**: fine to medium grained, yellow-brown.			
		E: _0.5-0.7	0		0.5		CH	**CLAY**: high plasticity, grey-brown with red mottle. grey-brown with red mottle			**RESIDUAL SOIL**
	Not Encountered	E: _1.3 - 1.5			1.0						
					1.5			Borehole BH17 terminated at 1.50 m Target depth			

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method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH18***
sheet:	1 of 1
project no.	***754-NTLEN347071***
client:	***Health Infrastructure c/o Turner & Townsend***
date started:	***13 Jun 2024***
principal:	
date completed:	***13 Jun 2024***
project:	***Cessnock Hospital***
logged by:	***PS***
location:	***24 View St Cessnock, NSW 2325***
checked by:	***MJ***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SW	**SAND**: fine to medium grained, yellow-brown, with gravels.			
	Not Encountered	E: _0.5-0.7	0.3		0.5		CH	**CLAY**: high plasticity, dark grey-brown with pale red and brown mottle, trace gravels.			**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0			becoming more mottled			**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH18 terminated at 1.30 m Refusal			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	**BH19**
sheet:	1 of 1
project no.	**754-NTLEN347071**
client:	***Health Infrastructure c/o Turner & Townsend***
principal:	
project:	***Cessnock Hospital***
location:	***24 View St Cessnock, NSW 2325***
date started:	**13 Jun 2024**
date completed:	**13 Jun 2024**
logged by:	**PS**
checked by:	**MJ**

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0					**ASPHALT**.	M		**FILL**
							SW	**SAND**: fine to medium grained, yellow-brown.			
	Not Encountered	E: _0.5-0.7	0		0.5		Cl	**Silty CLAY**: medium plasticity, grey-brown, trace gravels.			
		E: _1.0 - 1.2			1.0		Cl	**CLAY**: medium plasticity, red-brown, trace pale brown-orange mottle.			**RESIDUAL SOIL**
								becoming more mottled			**EXTREMELY WEATHERED MATERIAL**
					1.5			Borehole BH19 terminated at 1.30 m Refusal			

method
- AD auger drilling*
- HA hand auger
- MR mud rotary
- W washbore
- PT push tube
- HS hollow stem
- SS solid stem
- SD sonic drilling
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nill

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- WS water sample
- HB hammer bouncing
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- R refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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TETRA TECH COFFEY

Environmental Log - Borehole

Hole ID.	***BH20***
sheet:	1 of 1
project no.	***754-NTLEN347071***
client:	***Health Infrastructure c/o Turner & Townsend***
date started:	***13 Jun 2024***
principal:	
date completed:	***13 Jun 2024***
project:	***Cessnock Hospital***
logged by:	***PS***
location:	***24 View St Cessnock, NSW 2325***
checked by:	***MJ***

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°

equipment type: Mini loader, Track mounted | drilling fluid: Nil | hole diameter : 150 mm

drilling information | **material substance**

method & support	water	samples & field tests	photoionization detector (ppmv)	RL (m)	depth (m)	graphic log	soil group symbol	material description **SOIL NAME**: plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency / relative density	soil origin, structure and additional observations
		E: _0.0-0.2	0.3					**ASPHALT**.	M		**FILL**
							SW	**SAND**: fine to medium grained, pale yellow-brown, trace gravels.			
	Not Encountered	E: _0.5-0.7	0.8		0.5		CH	**CLAY**: high plasticity, grey-brown with orange-red, pale brown mottle.			**RESIDUAL SOIL**
		E: _1.0 - 1.2			1.0			mottled red, orange-brown			**EXTREMELY WEATHERED MATERIAL**
								Borehole BH20 terminated at 1.20 m Refusal			
					1.5						

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method

AD	auger drilling*
HA	hand auger
MR	mud rotary
W	washbore
PT	push tube
HS	hollow stem
SS	solid stem
SD	sonic drilling
*	bit shown by suffix
e.g.	AD/T
B	blank bit
T	TC bit
V	V bit

support

M	mud
C	casing
N	nill

water

10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests

B	bulk disturbed sample
D	disturbed sample
E	environmental sample
SS	split spoon sample
U##	undisturbed sample ##mm diameter
WS	water sample
HB	hammer bouncing
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
R	refusal

soil group symbol & material description
based on AS 1726:2017

moisture condition

D	dry
M	moist
W	wet
Wp	plastic limit
Wl	liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

APPENDIX I: FIELD NOTES

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH01

Sheet of

Client:	Turner Townsend			Project No.	
Project:	Cessnock Hospital			Date started:	14/8/24
Site Address:	24 View St Cessnock			Date completed:	
Drill model:	Hand Auger	Drill mounting:	Hole dia (mm):	Logged by:	Checked by:
GPS Co-ord:		GPS Datum:	R.L. surface (AHD):		Inclination:
Equipment used:	Equipment Type (PID or other)		Equipment Serial number:		
	Equipment Type (PID or other)		Equipment Serial number:		

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.2		gravelly silt - dark grey-brown	M		Topsoil
								becoming clayey	W		
				0.5-0.7	0.0	0.5		CLAY - pale brown, trace red mottle, HP			
								increasing red mottle			
				1.0-1.2		1.0					
								EOH@ 1.2 meters			

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH02

Sheet of

Client:						Project No.			
Project:						Date started:	12/6/24		
Site Address:						Date completed:			
Drill model:	Mini Loader-Auger	Drill mounting:		Hole dia (mm):	150mm	Logged by:		Checked by:	
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):				Inclination:	

Equipment used:	Equipment Type (PID or other)		Equipment Serial number:	
	Equipment Type (PID or other)		Equipment Serial number:	

Drilling information							Material substance			Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Silty CLAY - grey brown LP becoming more clayey	M		rootlets
				0.5-0.7	0.0	0.5		~~Silty~~ Silty CLAY - pale brown - pale orange HP			weathered return
				1.0-1.2		1.0		CLAY - pale brown to pale red HP			
						1.2		ECH @ 1.2m refusal			
						1.5					

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH03

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.3		0.0		silty CLAY - grey-brown fine gravels becoming more clayey			rootlets topsoil
				0.5-0.7		0.5		CLAY - pale red mottled pale brown, HP			weathered natural
				1.0-1.2		1.0		becoming more mottled			
						1.5		EOH @ target depth			

Initial water level: (after mins.) **Static water level:** (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH04
Sheet of

Client:						Project No.	
Project:						Date started:	12/8/24
Site Address:						Date completed:	
Drill model:		Drill mounting:		Hole dia (mm):		Logged by:	Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance			Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		~~Silty CLAY - Brown~~ Clayey SILT - Brown	M		rootlets, topsoil
				0.5-0.7	0.0	0.5		gravelly silty CLAY grey-brown, FA	M		FILL
								becoming more clayey			
						1.0		Silty CLAY - pale brown LP	W		natural
				1.3-1.5				~~Silty~~ CLAY - orange to red brown MF-HP pale brown mottle			weathered
						1.5		EOH@ 1.5m target depth			

Initial water level: (after mins.) **Static water level:** (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH05

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2		0.0		Silty CLAY - grey-brown trace gravel	M		Roots, natural
				0.5-0.7		0.5		CLAY-pale orange-brown, HP			
				1.0-1.2		1.0		becoming mottled, red-brown HP			
						1.5		EOH@ target depth			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method

DT	diatube
PT	push tube
SS	solid stem flight auger
HS	hollow stem flight auger
V, T	V bit, TC bit
AH	air hammer
CP	cable percussive
NMLC	NMLC core
HA	Hand auger
NDD	Non-Destructive Digging

Support

C	casing
DF	drilling fluid
N	none

Water

▶	inflow
◀	outflow
▽	initial water level (after excavation)
▼	standing water level @ time/date

Grading

Wg	well graded
Pg	poorly graded
Gg	gap graded
U	uniform

Grainsize

F	fine
M	medium
C	coarse

Plasticity

Lp	low plasticity
Mp	medium plasticity
Hp	high plasticity

Weathering Terms

Fr	Fresh
SW	Slightly Weathered
MW	Moderately Weathered
HW	Highly Weathered
XW	Extremely Weathered
RS	Residual Soil

Moisture

D	dry
M	moist
W	wet

Colour

R	red
W	white
G	grey
P	purple
Y	yellow
Bl	Black
Br	Brown
O	Orange
G	Green
B	Blue

Consistency

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable

Density

VL	very loose
L	loose
MD	med. dense
D	dense
VD	very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH06

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Clayey Silt - dark brown/LP	M		Topsoil rootlets
								gravelly CLAY - dark grey SA-SR, LP mottled clay			Fill rocks, slag, old ~~asbestos~~ pipe piece (not connected to anything) asbestos fragment
				0.5-0.7	0.0	0.5					
				1.0-1.2		1.0		CLAY with gravel grey-brown, MP	M		Fill
				1.3-1.5		1.5		Sandy CLAY - pale brown to brown, gravels	W		
								EOH @ target depth			

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH07

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2		0.0		Silty SAND - dark brown, MC SA-SR gravels			Fill rock tile fragments
								becoming gravelly SAND			
				0.5-0.7		0.5					
				1.0-1.2		1.0					
								EOH @ 1.3m Refusal			
						1.5					

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH08

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0			Silty CLAY - grey brown LD	M		natural
								becoming more clayey MD			
								~~Silty CLAY - grey brown, MD~~			
				0.5-0.7	0.0	0.5					
						1.0		CLAY - pale brown - orange brown mottle ~~no~~ HP			
				1.3-1.5							
						1.5		CLAY pale brown mottled orange red HP			weathered
								EOH @ target depth			

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VS very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH09

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0-0.2	0.0			Silty CLAY - dark brown - grey w/ fine gravels, stiff MD-HP			Fill pick, concrete flakes
				0.4-0.5	0.0	0.5					Asbestos fragments x2
				0.5-0.7							
				1.0-1.2		1.0		becoming more sandy, gravelly			
								Refusal @ 1.2m EOH on rock?			

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH10

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.1			Silty gravelly clay - grey, LP SA gravels	M		Fill.
				0.5-0.7	1.5	0.5		CLAY - pale brown mottled pale red, HP	M		Natural
						1.0					
				1.0-1.2				CLAY - pale yellow brown, mottled orange-red, MP			weathered
						1.5		EOH @ target depth			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VS very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH11

Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.5			Silty CLAY - dark brown, LP SR gravels			FILL GCL+GR
				0.5-0.7	1.2	0.5		CLAY - grey brown mottled pale brown MP			FILL
				1.0-1.2		1.0		CLAY - grey brown mottled pale red			Natural?
				1.3-1.5							
						1.5		EOH @ target depth			

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH12
Sheet of

Client:					Project No.		
Project:					Date started:	12/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.2			Silty CLAY - grey-brown, LP	M		rootlets, natural
				0.5-0.7	0.0			CLAY - grey-brown with pale brown mottle, HP			
				1.0-1.2		1.0		CLAY - pale grey-brown, HP			
						1.5		EOH @ target depth			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
DT diatube
PT push tube
SS solid stem flight auger
HS hollow stem flight auger
V, T V bit, TC bit
AH air hammer
CP cable percussive
NMLC NMLC core
HA Hand auger
NDD Non-Destructive Digging

Support
C casing
DF drilling fluid
N none

Water
▶ inflow
◀ outflow
▽ initial water level (after excavation)
▼ standing water level @ time/date

Grading
Wg well graded
Pg poorly graded
Gg gap graded
U uniform

Grainsize
F fine
M medium
C coarse

Plasticity
Lp low plasticity
Mp medium plasticity
Hp high plasticity

Weathering Terms
Fr Fresh
SW Slightly Weathered
MW Moderately Weathered
HW Highly Weathered
XW Extremely Weathered
RS Residual Soil

Moisture
D dry
M moist
W wet

Colour
R red
W white
G grey
P purple
Y yellow
Bl Black
Br Brown
O Orange
G Green
B Blue

Consistency
VS very soft
S soft
F firm
St stiff
VSt very stiff
H hard
Fb friable

Density
VL very loose
L loose
MD med. dense
D dense
VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH13

Sheet of

Client:					Project No.		
Project:					Date started:	13/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2		0.2		Asphalt SAND - fine brown to dark brown with gravels SA-SR	M		Fill, glass
				0.5-0.7		0.5		silt - dark brown, w gravels, clay	M		Fill
				1.0-1.2		1.0		silt - dark grey + clay gravels	M		fill
								gravelly silt - dark grey	W		
				1.3-1.5		1.5		EOH @ target depth			fill

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VS very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH 14

Sheet of

Client:					Project No.		
Project:					Date started:	13/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:	Checked by:	
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):		Inclination:	
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		~~SITE - black~~ Asphalt			
								Silt - dark grey with gravels, clay becoming clay	M		Fill
				0.5-0.7	0.0	0.5		CLAY - Pale orange-brown w red mottle, HP	M		natural?
						1.0		becoming softer			
								EOH @ 1.3m refusal			
						1.5					

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH15

Sheet of

Client:						Project No.			
Project:						Date started:	13/6/23		
Site Address:						Date completed:			
Drill model:		Drill mounting:		Hole dia (mm):		Logged by:		Checked by:	
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):				Inclination:	
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:					
	Equipment Type (PID or other)			Equipment Serial number:					

Drilling information							Material substance			Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Asphalt gravelly SAND - pale brown to brown SA-SR			Fill
				0.5-0.7	0.0	0.5		CLAY - pale brown to red, LP with sand, gravel			
								gravelly CLAY - ~~pale~~ dark grey, SA - SR	M		
				1.0-1.2	0.6	1.0		silty CLAY - grey-brown, LP	w		Hydrocarbon Odour
						1.5		Full @ 1.5m target depth			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH16

Sheet of

Client:					Project No.		
Project:					Date started:	13/8/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0-0.2	0.0	0		Asphalt SAND - brown with yellow, f-m SA-SR gravels, becoming clay			Fill
				0.5-0.7	0.0	0.5		CLAY - pale brown - pale orange mottled w pale grey, dark grey HP			natural
				1.0-1.2		1.0		becoming more mottled			weathered
								End of 1.2 m borehole collapse			
						1.5					

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH17
Sheet of

Client:					Project No.		
Project:					Date started:	13/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):		Logged by:		Checked by:	
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:	
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:				
	Equipment Type (PID or other)			Equipment Serial number:				

Drilling information							Material substance			Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Asphalt			
								SAND - f-m yellow brown			Fill
								CLAY - grey brown with ~~red mottle~~ MP	M		
				0.5-0.7	0.0	1.5		CLAY - grey brown with red mottle HP			QC3 + QC4
						1.0		increasing red mottle			
				1.3-1.5		1.5		EOH@ target depth			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH18

Sheet of

Client:					Project No.		
Project:					Date started:	13/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:		Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Asphalt			
								SAND - f-m; yellow brown w grey	M		Fill
				0.5-0.7	0.3	0.5		CLAY - dark brown - grey w pale red/brown mottle, firm grey)			
				1.0-1.2		1.0		~~increasing mottle~~			
								increasing mottle			
						1.3		EOH refusal @ 1.3m			weathered
						1.5					

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VS very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH 19

Sheet of

Client:						Project No.	
Project:						Date started:	13/6/24
Site Address:						Date completed:	
Drill model:		Drill mounting:		Hole dia (mm):		Logged by:	Checked by:
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):			Inclination:
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance			Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.0	0.0		Asphalt SAND - fine yellow-brown, fine grained trace gravel			FILL
				0.5-0.7	0.0	0.5		Silty CLAY - grey-brown MP trace gravel			
				1.0-1.2		1.0		RESIDUAL CLAY - red-brown MP grade pale brown-orange mottle High plasticity increased mottle			Natural weathered
						1.5		ECHE 1.3m due to refusal			

Initial water level:	(after mins.)	Static water level:	(after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

TETRA TECH COFFEY

Environmental Field Log - Borehole

Borehole No. BH2C

Sheet of

Client:					Project No.		
Project:					Date started:	13/6/24	
Site Address:					Date completed:		
Drill model:		Drill mounting:		Hole dia (mm):	Logged by:	Checked by:	
GPS Co-ord:		GPS Datum:		R.L. surface (AHD):		Inclination:	
Equipment used:	Equipment Type (PID or other)			Equipment Serial number:			
	Equipment Type (PID or other)			Equipment Serial number:			

Drilling information							Material substance				Additional observations
Method	Support	Water	construction details	sample ID / type / tests	PID (ppm)	depth (m)	USCS	MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components	moisture condition	consist. / density	Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations)
				0.0-0.2	0.3	0.0		Asphalt SAND - pale yellow-brown, fine w gravels SA-SR becoming clayey	M		Fill
				0.5-0.7	0.8	0.5		CLAY - grey, brown mottled orange-red, pale brown NP			Natural
				1.0-1.2		1.2		CLAY - mottled red, orange, brown with dark grey ECHO 1.2m Refusal			~~Natural~~
						1.5					

Initial water level: (after mins.) Static water level: (after mins.)

Method
- DT diatube
- PT push tube
- SS solid stem flight auger
- HS hollow stem flight auger
- V, T V bit, TC bit
- AH air hammer
- CP cable percussive
- NMLC NMLC core
- HA Hand auger
- NDD Non-Destructive Digging

Support
- C casing
- DF drilling fluid
- N none

Water
- ▶ inflow
- ◀ outflow
- ▽ initial water level (after excavation)
- ▼ standing water level @ time/date

Grading
- Wg well graded
- Pg poorly graded
- Gg gap graded
- U uniform

Grainsize
- F fine
- M medium
- C coarse

Plasticity
- Lp low plasticity
- Mp medium plasticity
- Hp high plasticity

Weathering Terms
- Fr Fresh
- SW Slightly Weathered
- MW Moderately Weathered
- HW Highly Weathered
- XW Extremely Weathered
- RS Residual Soil

Moisture
- D dry
- M moist
- W wet

Colour
- R red
- W white
- G grey
- P purple
- Y yellow
- Bl Black
- Br Brown
- O Orange
- G Green
- B Blue

Consistency
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable

Density
- VL very loose
- L loose
- MD med. dense
- D dense
- VD very dense

APPENDIX J: EILS CALCULATION

Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
2.5
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0.71
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	45	90
Urban residential and open public spaces	110	260
Commercial and industrial	180	430

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
5.7
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0.71
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Ni soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	7	15
Urban residential and open public spaces	20	50
Commercial and industrial	35	80

Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
5.7
Enter soil pH (calcium chloride method) (values from 1 to 14)
6.3
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0.71
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	35	130
Urban residential and open public spaces	110	330
Commercial and industrial	170	480

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
5.7
Enter soil pH (calcium chloride method) (values from 1 to 14)
6.3
Enter organic carbon content (%OC) (values from 0 to 50%)
0.4
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
0.71
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cu soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	30	50
Urban residential and open public spaces	55	110
Commercial and industrial	75	150

APPENDIX K: ANALYTICAL AND QA/QC RESULTS TABLES

754-NTLEN347071

	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	BH01_0.0-0.2	BH01_0.5-0.7	BH02_0.0-0.2	BH02_0.5-0.7	BH03_0.0-0.2	BH03_1.0-1.2	BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7	BH06_0.5-0.7	BH06_0.5-0.7-F1	BH06_1.0-1.2
Date										14 Jun 2024	14 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
Depth										0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0.5 - 0.7	1.3 - 1.5	0 - 0.2	0.5 - 0.7	0.5 - 0.7		1 - 1.2
Physical Parameters																						
Moisture Content (dried @ 103°C)	%	1	-	-	-	-	-	-	-	18	17	22	21	12	16	20	22	37	21	20	-	18
Asbestos																						
Asbestos detected			-	No*	No*	-	-	-	-	No	No	No		No		No		No		No	Chrysotile asbestos detected.	
Asbestos (ACM in Soil)	%w/w		-	-	-	-	-	-	-	0	0	0	-	0	-	0	-	0	-	0	0	-
Asbestos (FA & AF in Soil)	%w/w		-	-	-	-	-	-	-	0	0	0	-	0	-	0	-	0	-	0	0	-
Total Recoverable Hydrocarbons																						
C6 - C10	mg/kg	20	-	-	-	-	26,000	-	700	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20
F1 (C6 - C10) less BTEX	mg/kg	20	-	260	370	-	-	215	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20
C10 - C16	mg/kg	50	-	-	-	-	20,000	-	1,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	50	-	-	-	-	-	170	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
F3 (C16 - C34)	mg/kg	100	-	-	-	-	27,000	1,700	3,500	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	130	-	<100
F4 (C34 - C40)	mg/kg	100	-	-	-	-	38,000	3,300	10,000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	110	-	<100
C10 - C40 (Sum of total)	mg/kg	100	-	-	-	-	-	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	240	-	<100
Total Petroleum Hydrocarbons																						
C6 - C9	mg/kg	20	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20
C10 - C14	mg/kg	20	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20
C15 - C28	mg/kg	50	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	50	<50	<50	66	-	<50
C29 - C36	mg/kg	50	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	110	-	<50
C10 - C36 (Sum of total)	mg/kg	50	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	50	<50	<50	176	-	<50
NA																						
Tokuthion	mg/kg	0.2	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
BTEXN																						
Benzene	mg/kg	0.1	-	3	3	-	430	75	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Toluene	mg/kg	0.1	-	-	-	-	99,000	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
Ethyl Benzene	mg/kg	0.1	-	-	-	-	27,000	165	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
m,p-Xylene	mg/kg	0.2	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
o-Xylene	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Total Xylenes	mg/kg	0.3	-	230	-	-	81,000	180	-	<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 (VOC)	mg/kg	0.5	-	-	-	-	11,000	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Polycyclic Aromatic Hydrocarbons																						
Benzo(b+j)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	0.7	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Acenaphthene	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
Acenaphthylene	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
Anthracene	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
Benz(a)anthracene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	0.8	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Benzo(a) pyrene	mg/kg	0.5	-	-	-	-	-	72**	-	<0.5	<0.5	0.9	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	40	-	-	-	-	-	-	<0.5	<0.5	1.3	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	40	-	-	-	-	-	-	0.6	0.6	1.5	0.6	1.4	0.6	0.6	0.6	0.6	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	40	-	-	-	-	-	-	1.2	1.2	1.8	1.2	1.7	1.2	1.2	1.2	1.2	1.2	1.2	-	1.2
Benzo(g,h,i)perylene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	0.7	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	1.2	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Chrysene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	1.4	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Dibenz(a,h)anthracene	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
Fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	4.4	0.8	3.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Fluorene	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
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	0.7	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Naphthalene	mg/kg	0.5	-	-	-	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	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	2.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Pyrene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	4.4	0.8	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
PAHs (Sum of total)	mg/kg	0.5	4,000	-	-	-	-	-	-	<0.5	<0.5	18	1.6	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Metals																						
Arsenic	mg/kg	2	3,000	-	-	160	-	-	-	6	11	6.7	13	8.6	11	6.4	12	11	15	6.0	-	7.9
Cadmium	mg/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 (III+VI)	mg/kg	5	-	-	-	430	-	-	-	10	28	11	23	16	17	11	25	24	33	7.8	-	15
Copper	mg/kg	5	240,000	-	-	150	-	-	-	27	< 5	17	<5	9.8	<5	26	<5	24	<5	20	-	20
Iron	mg/kg	20	-	-	-	-	-	-	-	-	-	8,600	-	-	-	-	-	23,000	-	14,000	-	-
Lead	mg/kg	5	1,500	-	-	1800	-	-	-	80	13	57	16	37	16	55	11	54	12	41	-	77
Mercury	mg/kg	0.1	730	-	-	-	-	-	-	0.1	< 0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	-	0.1
Nickel	mg/kg	5	6,000	-	-	80	-	-	-	18	12	11	11	13	6.5	7.2	10	11	16	31	-	17
Zinc	mg/kg	5	400,000	-	-	480	-	-	-	110	33	100	62	92	38	20	46	170	44	110	-	98
PCBs																						
Arochlor 1016	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1221	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1232	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1242	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1248	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1254	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Arochlor 1260	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
PCBs (Sum of total)	mg/kg	0.1	7	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1

									Field ID	BH01_0.0-0.2	BH01_0.5-0.7	BH02_0.0-0.2	BH02_0.5-0.7	BH03_0.0-0.2	BH03_1.0-1.2	BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7	BH06_0.5-0.7	BH06_0.5-0.7-F1	BH06_1.0-1.2
									Date	14 Jun 2024	14 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0.5 - 0.7	1.3 - 1.5	0 - 0.2	0.5 - 0.7	0.5 - 0.7		1 - 1.2
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil													
Organochlorine Pesticides																								
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Aldrin + Dieldrin	mg/kg	**0.05**	45	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
chlordane	mg/kg	**0.1**	530	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
DDT	mg/kg	**0.05**	-	-	-	640	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
DDT+DDE+DDD	mg/kg	**0.05**	3,600	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	<500	<50	<500	<50	<500	<500	<50	<50	<50	<50	<50	-	<50
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Endrin	mg/kg	**0.05**	100	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Heptachlor	mg/kg	**0.05**	50	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Methoxychlor	µg/kg	**50**	2,500,000	-	-	-	-	-	<500	<50	<500	<50	<500	<500	<50	<50	<50	<50	<50	-	<50
Toxaphene	mg/kg	**0.5**	160	-	-	-	-	-	<10	<0.5	<10	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Organophosphorous Pesticides							-																	
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Chlorpyrifos	mg/kg	**0.2**	2,000	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	<5	<2	<5	<2	<5	<5	<2	<2	<2	<2	<2	-	<2
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
EPN	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	<5	<2	<5	<2	<5	<5	<2	<2	<2	<2	<2	-	<2
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Omethoate	mg/kg	**2**	-	-	-	-	-	-	<5	<2	<5	<2	<5	<5	<2	<2	<2	<2	<2	-	<2
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Pesticides																								
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
Halogenated Benzenes																								
Hexachlorobenzene	mg/kg	**0.05**	80	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05

*No visible forms of asbestos
** Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

									Field ID	BH07_0.0-0.2	BH07_0.5-0.7	BH08_0.0-0.2	BH08_1.3-1.5	BH09_0.0-0.2	BH09_0.5-0.7	BH09_0.5-0.7-F	BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	BH11_0.0-0.2	BH11_1.0-1.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1.3 - 1.5	0 - 0.2	0.5 - 0.7		1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil												
Physical Parameters																					
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-		**15**	**18**	**39**	**20**	**21**	**17**	-	**16**	**22**	**18**	**28**	**20**
Asbestos																					
Asbestos detected			-	No*	No*	-	-	-	-	No		No			No	Chrysotile and amosite asbestos detected.		No		No	
Asbestos (ACM in Soil)	%w/w		-	-	-	-	-	-	-	**0**	-	**0**	-	-	**0**	**0**	-	**0**	-	**0**	-
Asbestos (FA & AF in Soil)	%w/w		-	-	-	-	-	-	-	**0**	-	**0**	-	-	**0**	**0**	-	**0**	-	**0**	-
Total Recoverable Hydrocarbons																					
C6 - C10	mg/kg	**20**	-	-	-	-	26,000	-	700	<20	<20	<20	<20	<20	-	-	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	260	370	-	-	215	-	<20	<20	<20	<20	<20	-	-	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	20,000	-	1,000	<50	<50	<50	<50	<50	-	-	<50	<50	<50	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	170	-	<50	<50	<50	<50	<50	-	-	<50	<50	<50	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	27,000	1,700	3,500	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	38,000	3,300	10,000	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	-	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100	<100
Total Petroleum Hydrocarbons																					
C6 - C9	mg/kg	**20**	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	-	-	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	-	-	<20	<20	<20	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	-	<50	<50	<50	<50	**61**	-	-	**53**	<50	<50	<50	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	-	-	<50	<50	<50	<50	<50
C10 - C36 (Sum of total)	mg/kg	**50**	-	-	-	-	-	-	-	<50	<50	<50	<50	**61**	-	-	**53**	<50	<50	<50	<50
NA																					
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
BTEXN																					
Benzene	mg/kg	**0.1**	-	3	3	-	430	75	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	-	-	-	-	99,000	135	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	-	-	-	-	27,000	165	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	-	230	-	-	81,000	180	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	11,000	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons																					
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.7**	-	-	**0.9**	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**0.8**	-	-	**0.6**	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	**0.5**	-	-	-	-	-	72**	-	<0.5	<0.5	<0.5	<0.5	**1.1**	-	-	**0.8**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	40	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.7**	-	-	**1.2**	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	40	-	-	-	-	-	-	**0.6**	**0.6**	**0.6**	**0.6**	**1.9**	-	-	**1.4**	**0.6**	**0.6**	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	40	-	-	-	-	-	-	**1.2**	**1.2**	**1.2**	**1.2**	**2.2**	-	-	**1.7**	**1.2**	**1.2**	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.5**	-	-	**1.0**	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.8**	-	-	**1.2**	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.7**	-	-	**1.1**	<0.5	<0.5	<0.5	<0.5
Dibenz[a,h]anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	**0.8**	<0.5	<0.5	<0.5	**2.9**	-	-	**2.0**	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	**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-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	**1.1**	-	-	**0.7**	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	370	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	-	**0.5**	<0.5	<0.5	<0.5	**0.8**	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	**0.8**	<0.5	<0.5	<0.5	**2.7**	-	-	**1.8**	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg	**0.5**	4,000	-	-	-	-	-	-	**2.1**	<0.5	<0.5	<0.5	**16**	-	-	**10**	<0.5	<0.5	<0.5	<0.5
Metals																					
Arsenic	mg/kg	**2**	3,000	-	-	160	-	-	-	**6.3**	**2.3**	**2.4**	**7.0**	**5.1**	-	-	**6.3**	**4.8**	**8.1**	**4.9**	**7.8**
Cadmium	mg/kg	**0.4**	900	-	-	-	-	-	-	<0.4	<0.4	**0.5**	<0.4	<0.4	-	-	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	430	-	-	-	**9.2**	**8.7**	**7.4**	**17**	**14**	-	-	**9.1**	**11**	**18**	**10**	**19**
Copper	mg/kg	**5**	240,000	-	-	150	-	-	-	**46**	**21**	**11**	<5	**29**	-	-	**6.7**	**5.8**	<5	**20**	<5
Iron	mg/kg	**20**	-	-	-	-	-	-	-	-	-	**7,100**	-	-	**8,300**	-	-	-	-	-	-
Lead	mg/kg	**5**	1,500	-	-	1800	-	-	-	**66**	**16**	**29**	**14**	**110**	-	-	**32**	**22**	**11**	**46**	**9.1**
Mercury	mg/kg	**0.1**	730	-	-	-	-	-	-	**0.8**	<0.1	**0.2**	<0.1	**0.2**	-	-	<0.1	**0.6**	<0.1	**0.4**	<0.1
Nickel	mg/kg	**5**	6,000	-	-	80	-	-	-	**34**	**43**	**9.9**	**5.8**	**20**	-	-	**9.1**	**17**	**6.6**	**15**	<5
Zinc	mg/kg	**5**	400,000	-	-	480	-	-	-	**140**	**34**	**64**	**20**	**130**	-	-	**93**	**38**	**17**	**97**	**18**
PCBs																					
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
PCBs (Sum of total)	mg/kg	**0.1**	7	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1

									Field ID	BH07_0.0-0.2	BH07_0.5-0.7	BH08_0.0-0.2	BH08_1.3-1.5	BH09_0.0-0.2	BH09_0.5-0.7	BH09_0.5-0.7-F	BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	BH11_0.0-0.2	BH11_1.0-1.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1.3 - 1.5	0 - 0.2	0.5 - 0.7		1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil												
Organochlorine Pesticides																						
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Aldrin + Dieldrin	mg/kg	**0.05**	45	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
chlordane	mg/kg	**0.1**	530	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<1	-	-	<1	<0.1	<0.1	<1	<0.1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
DDD	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
DDT	mg/kg	**0.05**	-	-	-	640	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
DDT+DDE+DDD	mg/kg	**0.05**	3,600	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	-	<50	<50	<50	<50	<500	-	-	<500	<50	<50	<500	<50
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Endrin	mg/kg	**0.05**	100	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Heptachlor	mg/kg	**0.05**	50	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05
Methoxychlor	µg/kg	**50**	2,500,000	-	-	-	-	-	-	<50	<50	<50	<50	<500	-	-	<500	<50	<50	<500	<50
Toxaphene	mg/kg	**0.5**	160	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<10	-	-	<10	<0.5	<0.5	<10	<0.5
Organophosphorous Pesticides							-															
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Chlorpyrifos	mg/kg	**0.2**	2,000	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	-	<2	<2	<2	<2	<5	-	-	<5	<2	<2	<5	<2
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
EPN	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	-	<2	<2	<2	<2	<5	-	-	<5	<2	<2	<5	<2
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Omethoate	mg/kg	**2**	-	-	-	-	-	-	-	<2	<2	<2	<2	<5	-	-	<5	<2	<2	<5	<2
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Pesticides																						
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.5	-	-	<0.5	<0.2	<0.2	<0.5	<0.2
Halogenated Benzenes																						
Hexachlorobenzene	mg/kg	**0.05**	80	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	<0.5	<0.05	<0.05	<0.5	<0.05

*No visible forms of asbestos
** Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

754-NTLEN347071

	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	BH12_0.0-0.2	BH12_0.5-0.7	BH13_0.0-0.2	BH13_1.0-1.2	BH14_0.0-0.2	BH14_0.5-0.7	BH15_0.0-0.2	BH15_1.0-1.2	BH16_0.0-0.2	BH16_0.5-0.7	BH17_0.0-0.2	BH17_0.5-0.7
Date										12 Jun 2024	12 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
Depth										0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7
Physical Parameters																					
Moisture Content (dried @ 103°C)	%	1	-	-	-	-	-	-	-	18	18	9.9	21	16	17	15	15	8.3	15	6.4	12
Asbestos																					
Asbestos detected			-	No*	No*	-	-	-	-	No		No		No	No	No		No		No	
Asbestos (ACM in Soil)	%w/w		-	-	-	-	-	-	-	0	-	0	-	0	0	0	-	0	-	0	-
Asbestos (FA & AF in Soil)	%w/w		-	-	-	-	-	-	-	0	-	0	-	0	0	0	-	0	-	0	-
Total Recoverable Hydrocarbons																					
C6 - C10	mg/kg	20	-	-	-	-	26,000	-	700	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	20	-	260	370	-	-	215	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	50	-	-	-	-	20,000	-	1,000	<50	<50	<100	<50	160	<50	<50	350	<50	<50	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	50	-	-	-	-	-	170	-	<50	<50	<100	<50	160	<50	<50	350	<50	<50	<50	<50
F3 (C16 - C34)	mg/kg	100	-	-	-	-	27,000	1,700	3,500	<100	130	3,000	480	820	<100	320	570	300	<100	<100	<100
F4 (C34 - C40)	mg/kg	100	-	-	-	-	38,000	3,300	10,000	<100	110	750	170	940	<100	110	<100	360	<100	170	<100
C10 - C40 (Sum of total)	mg/kg	100	-	-	-	-	-	-	-	<100	240	3,750	650	1,920	<100	430	920	660	<100	170	<100
Total Petroleum Hydrocarbons																					
C6 - C9	mg/kg	20	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	20	-	-	-	-	-	-	-	<20	<20	<40	<20	78	<20	<20	200	<20	<20	<20	<20
C15 - C28	mg/kg	50	-	-	-	-	-	-	-	64	92	2,600	390	470	<50	250	620	140	<50	<50	<50
C29 - C36	mg/kg	50	-	-	-	-	-	-	-	52	110	920	180	670	<50	130	110	260	<50	85	<50
C10 - C36 (Sum of total)	mg/kg	50	-	-	-	-	-	-	-	116	202	3,520	570	1,218	<50	380	930	400	<50	85	<50
NA																					
Tokuthion	mg/kg	0.2	-	-	-	-	-	-	-	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
BTEXN																					
Benzene	mg/kg	0.1	-	3	3	-	430	75	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	-	-	-	-	99,000	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
Ethyl Benzene	mg/kg	0.1	-	-	-	-	27,000	165	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	0.2	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	-	230	-	-	81,000	180	-	<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 (VOC)	mg/kg	0.5	-	-	-	-	11,000	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons																					
Benzo(b+j)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	58	7.6	<0.5	<0.5	4.1	6.9	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	4.7	0.7	<0.5	<0.5	2.0	6.6	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	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
Anthracene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	16	3.9	<0.5	<0.5	3.2	8.9	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	58	8.4	<0.5	<0.5	5.0	8.1	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5	-	-	-	-	-	72**	-	<0.5	<0.5	56	7.7	<0.5	<0.5	4.5	7.1	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	40	-	-	-	-	-	-	<0.5	<0.5	92	13	<0.5	<0.5	6.1	11	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	40	-	-	-	-	-	-	0.6	0.6	92	13	0.6	0.6	6.3	11	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	40	-	-	-	-	-	-	1.2	1.2	92	13	1.2	1.2	6.6	11	1.2	1.2	1.2	1.2
Benzo(g,h,i)perylene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	49	5.5	<0.5	<0.5	3.2	4.1	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	50	7.9	<0.5	<0.5	3.0	6.7	0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	60	9.6	<0.5	<0.5	5.9	9.6	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	14	1.9	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	160	27	1.2	<0.5	17	32	0.9	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	3.2	<0.5	<0.5	<0.5	0.9	3.6	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	45	5.3	<0.5	<0.5	2.9	4.0	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5	-	-	-	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	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	99	16	1.0	<0.5	11	29	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5	-	-	-	-	-	-	-	<0.5	<0.5	130	22	1.1	<0.5	14	26	0.8	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg	0.5	4,000	-	-	-	-	-	-	<0.5	<0.5	800	120	3.3	<0.5	77	150	2.2	<0.5	<0.5	<0.5
Metals																					
Arsenic	mg/kg	2	3,000	-	-	160	-	-	-	3.7	6.0	5.6	7.9	4.0	8.4	11	14	8.0	9.8	5.2	19
Cadmium	mg/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 (III+VI)	mg/kg	5	-	-	-	430	-	-	-	9.1	15	12	12	11	20	17	25	12	14	13	14
Copper	mg/kg	5	240,000	-	-	150	-	-	-	<5	<5	44	54	150	<5	<5	<5	10	<5	17	14
Iron	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	5	1,500	-	-	1800	-	-	-	15	9.1	170	46	26	9.2	12	17	15	9.1	<5	27
Mercury	mg/kg	0.1	730	-	-	-	-	-	-	0.3	0.2	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	5	6,000	-	-	80	-	-	-	5.7	<5	29	35	15	5.6	8.2	6.8	17	<5	50	26
Zinc	mg/kg	5	400,000	-	-	480	-	-	-	27	14	230	140	65	20	24	23	36	9.5	42	62
PCBs																					
Arochlor 1016	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1221	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1232	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1242	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1248	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1254	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Arochlor 1260	mg/kg	0.1	-	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
PCBs (Sum of total)	mg/kg	0.1	7	-	-	-	-	-	-	<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1

										Field ID	BH12_0.0-0.2	BH12_0.5-0.7	BH13_0.0-0.2	BH13_1.0-1.2	BH14_0.0-0.2	BH14_0.5-0.7	BH15_0.0-0.2	BH15_1.0-1.2	BH16_0.0-0.2	BH16_0.5-0.7	BH17_0.0-0.2	BH17_0.5-0.7
										Date	12 Jun 2024	12 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
										Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil												
Organochlorine Pesticides																						
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-		<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-		<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Aldrin + Dieldrin	mg/kg	**0.05**	45	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
chlordane	mg/kg	**0.1**	530	-	-	-	-	-	-		<0.1	<0.1	<1	<1	<1	<0.1	<1	<1	<1	<0.1	<1	<1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
DDD	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
DDT	mg/kg	**0.05**	-	-	-	640	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
DDT+DDE+DDD	mg/kg	**0.05**	3,600	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	-		<50	<50	<500	<500	<500	<50	<500	<500	<500	<50	<500	<500
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Endrin	mg/kg	**0.05**	100	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Heptachlor	mg/kg	**0.05**	50	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5
Methoxychlor	µg/kg	**50**	2,500,000	-	-	-	-	-	-		<50	<50	<500	<500	<500	<50	<500	<500	<500	<50	<500	<500
Toxaphene	mg/kg	**0.5**	160	-	-	-	-	-	-		<0.5	<0.5	<10	<10	<10	<0.5	<10	<10	<10	<0.5	<10	<10
Organophosphorous Pesticides							-															
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Chlorpyrifos	mg/kg	**0.2**	2,000	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	-		<2	<2	<5	<5	<5	<2	<5	<5	<5	<2	<5	<5
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
EPN	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	-		<2	<2	<5	<5	<5	<2	<5	<5	<5	<2	<5	<5
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Omethoate	mg/kg	**2**	-	-	-	-	-	-	-		<2	<2	<5	<5	<5	<2	<5	<5	<5	<2	<5	<5
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Pesticides																						
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
Halogenated Benzenes																						
Hexachlorobenzene	mg/kg	**0.05**	80	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5

*No visible forms of asbestos
** Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

									Field ID	BH18_0.0-0.2	BH18_1.0-1.2	BH19_0.0-0.2	BH19_1.0-1.2	BH20_0.0-0.2	BH20_0.5-0.7	QC1	QC2	QC3	QC4
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	0 - 0.2	1 - 1.2	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7				
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil										
Physical Parameters																			
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-		**8.1**	**14**	**7.3**	**11**	**7.6**	**16**	**24**	**30**	**13**	**15**
Asbestos																			
Asbestos detected			-	No*	No*	-	-	-	-	No		No		No					
Asbestos (ACM in Soil)	%w/w		-	-	-	-	-	-	-	**0**	-	**0**	-	**0**	-	-	-	-	-
Asbestos (FA & AF in Soil)	%w/w		-	-	-	-	-	-	-	**0**	-	**0**	-	**0**	-	-	-	-	-
Total Recoverable Hydrocarbons																			
C6 - C10	mg/kg	**20**	-	-	-	-	26,000	-	700	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	260	370	-	-	215	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	20,000	-	1,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	170	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	27,000	1,700	3,500	**110**	<100	<100	<100	<100	<100	**100**	<100	<100	**110**
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	38,000	3,300	10,000	**190**	<100	<100	<100	<100	<100	<100	<100	<100	**150**
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	-	**300**	<100	<100	<100	<100	<100	**100**	<100	<100	**260**
Total Petroleum Hydrocarbons																			
C6 - C9	mg/kg	**20**	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	**63**	<50	<50	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	-	**130**	<50	**53**	<50	**58**	**55**	**76**	<50	**50**	**110**
C10 - C36 (Sum of total)	mg/kg	**50**	-	-	-	-	-	-	-	**130**	<50	**53**	<50	**58**	**55**	**139**	<50	**50**	**110**
NA																			
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-
BTEXN																			
Benzene	mg/kg	**0.1**	-	3	3	-	430	75	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	-	-	-	-	99,000	135	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	-	-	-	-	27,000	165	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	-	230	-	-	81,000	180	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	11,000	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons																			
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	**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	mg/kg	**0.5**	-	-	-	-	-	72**	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	40	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	40	-	-	-	-	-	-	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	40	-	-	-	-	-	-	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz[a,h]anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	<0.5
Fluorene	mg/kg	**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-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	370	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg	**0.5**	4,000	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	<0.5
Metals																			
Arsenic	mg/kg	**2**	3,000	-	-	160	-	-	-	**4.4**	**6.5**	**4.4**	**13**	**5.5**	**8.8**	**7.4**	**5.8**	**11**	**12**
Cadmium	mg/kg	**0.4**	900	-	-	-	-	-	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	430	-	-	-	**12**	**13**	**12**	**24**	**12**	**14**	**13**	**12**	**19**	**12**
Copper	mg/kg	**5**	240,000	-	-	150	-	-	-	**15**	<5	**18**	<5	**12**	<5	**21**	**20**	<5	**17**
Iron	mg/kg	**20**	-	-	-	-	-	-	-	**12,000**	-	-	-	-	-	-	-	-	-
Lead	mg/kg	**5**	1,500	-	-	1800	-	-	-	<5	**7.1**	**7.5**	**11**	<5	**7.6**	**55**	**46**	**9.2**	**15**
Mercury	mg/kg	**0.1**	730	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	**0.3**	<0.1	<0.1
Nickel	mg/kg	**5**	6,000	-	-	80	-	-	-	**56**	**5.8**	**65**	**9.8**	**35**	**5.7**	**25**	**18**	**16**	**32**
Zinc	mg/kg	**5**	400,000	-	-	480	-	-	-	**46**	**20**	**43**	**52**	**30**	**23**	**110**	**93**	**39**	**47**
PCBs																			
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-
PCBs (Sum of total)	mg/kg	**0.1**	7	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-

										Field ID	BH18_0.0-0.2	BH18_1.0-1.2	BH19_0.0-0.2	BH19_1.0-1.2	BH20_0.0-0.2	BH20_0.5-0.7	QC1	QC2	QC3	QC4
										Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
										Depth	0 - 0.2	1 - 1.2	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7				
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil										
Organochlorine Pesticides																				
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-	-
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-	-
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Aldrin + Dieldrin	mg/kg	**0.05**	45	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
chlordane	mg/kg	**0.1**	530	-	-	-	-	-	-	-	<0.1	<1	<1	<1	<0.1	-	-	-	-	-
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
DDD	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
DDT	mg/kg	**0.05**	-	-	-	640	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
DDT+DDE+DDD	mg/kg	**0.05**	3,600	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	-	-	<50	<500	<500	<500	<50	-	-	-	-	-
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Endrin	mg/kg	**0.05**	100	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Heptachlor	mg/kg	**0.05**	50	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-
Methoxychlor	µg/kg	**50**	2,500,000	-	-	-	-	-	-	-	<50	<500	<500	<500	<50	-	-	-	-	-
Toxaphene	mg/kg	**0.5**	160	-	-	-	-	-	-	-	<0.5	<10	<10	<10	<0.5	-	-	-	-	-
Organophosphorous Pesticides							-													
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Chlorpyrifos	mg/kg	**0.2**	2,000	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	-	-	<2	<5	<5	<5	<2	-	-	-	-	-
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
EPN	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	-	-	<2	<5	<5	<5	<2	-	-	-	-	-
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Omethoate	mg/kg	**2**	-	-	-	-	-	-	-	-	<2	<5	<5	<5	<2	-	-	-	-	-
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Pesticides																				
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-
Halogenated Benzenes																				
Hexachlorobenzene	mg/kg	**0.05**	80	-	-	-	-	-	-	-	<0.05	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-

*No visible forms of asbestos
** Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

Field ID															
Date															
Depth															
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	Number of Results	Minimum Concentration	Maximum Concentration	Average Concentration *	Standard Deviation *	95% UCL (Student's-t) *
Physical Parameters															
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	-	43	6.4	39	18	6.9	19.47
Asbestos															
Asbestos detected			-	No*	No*	-	-	-	-						
Asbestos (ACM in Soil)	%w/w		-	-	-	-	-	-	-	24	0	0	0	0	0
Asbestos (FA & AF in Soil)	%w/w		-	-	-	-	-	-	-	24	0	0	0	0	0
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	26,000	-	700	46	<20	<20	10	0	10
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	260	370	-	-	215	-	46	<20	<20	10	0	10
C10 - C16	mg/kg	**50**	-	-	-	-	20,000	-	1,000	44	<50	350	37	54	50.53
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	170	-	44	<50	350	37	54	50.53
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	27,000	1,700	3,500	44	100	3,000	181	473	304.3
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	38,000	3,300	10,000	44	<100	940	111	177	157
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	-	44	100	3,750	265	645	432.8
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	-	-	-	-	-	-	-	46	<20	<20	10	0	10
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	-	44	<20	200	16	31	24.4
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	-	44	50	2,600	134	410	240.8
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	-	44	50	920	90	170	134.1
C10 - C36 (Sum of total)	mg/kg	**50**	-	-	-	-	-	-	-	44	50	3,520	212	577	361.9
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
BTEXN															
Benzene	mg/kg	**0.1**	-	3	3	-	430	75	-	46	<0.1	<0.1	0.05	0	0.05
Toluene	mg/kg	**0.1**	-	-	-	-	99,000	135	-	46	<0.1	<0.1	0.05	0	0.05
Ethyl Benzene	mg/kg	**0.1**	-	-	-	-	27,000	165	-	46	<0.1	<0.1	0.05	0	0.05
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	-	46	<0.2	<0.2	0.1	0	0.1
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	-	46	<0.1	<0.1	0.05	0	0.05
Total Xylenes	mg/kg	**0.3**	-	230	-	-	81,000	180	-	46	<0.3	<0.3	0.15	0	0.15
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	11,000	-	-	46	<0.5	<0.5	0.25	0	0.25
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	58	2.1	9	4.45
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	6.6	0.56	1.2	0.872
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	<0.5	0.25	0	0.25
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	16	0.99	2.8	1.716
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	58	2.2	9	4.503
Benzo(a) pyrene	mg/kg	**0.5**	-	-	-	-	-	72**	-	44	<0.5	56	2.1	8.7	4.337
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	40	-	-	-	-	-	-	44	<0.5	92	3.2	14	6.946
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	40	-	-	-	-	-	-	44	0.6	92	3.5	14	7.237
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	40	-	-	-	-	-	-	44	1.2	92	4.1	14	7.731
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	49	1.8	7.5	3.726
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	0.5	50	1.9	7.8	3.956
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	60	2.4	9.4	4.784
Dibenz[a,h]anthracene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	14	0.65	2.1	1.203
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	0.5	160	6.2	25	12.73
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	3.6	0.42	0.68	0.593
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	45	1.6	6.9	3.438
Naphthalene	mg/kg	**0.5**	-	-	-	370	-	-	-	44	<0.5	<0.5	0.25	0	0.25
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	0.5	99	4	16	8.158
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	-	44	<0.5	130	5.1	20	10.43
PAHs (Sum of total)	mg/kg	**0.5**	4,000	-	-	-	-	-	-	44	0.5	800	29	126	61.72
Metals															
Arsenic	mg/kg	**2**	3,000	-	-	160	-	-	-	44	2.3	19	8	3.6	8.884
Cadmium	mg/kg	**0.4**	900	-	-	-	-	-	-	44	<0.4	0.5	0.21	0.046	0.219
Chromium (III+VI)	mg/kg	**5**	-	-	-	430	-	-	-	44	7.4	33	15	5.5	16.28
Copper	mg/kg	**5**	240,000	-	-	150	-	-	-	44	<5	150	16	25	22.85
Iron	mg/kg	**20**	-	-	-	-	-	-	-	44	7,100	23,000	12,167	5,901	17,021
Lead	mg/kg	**5**	1,500	-	-	1800	-	-	-	44	<5	170	30	32	38.18
Mercury	mg/kg	**0.1**	730	-	-	-	-	-	-	44	0.1	0.8	0.13	0.16	0.174
Nickel	mg/kg	**5**	6,000	-	-	80	-	-	-	44	<5	65	18	15	22.2
Zinc	mg/kg	**5**	400,000	-	-	480	-	-	-	44	9.5	230	63	48	75.1
PCBs															
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
PCBs (Sum of total)	mg/kg	**0.1**	7	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32

Field ID																
Date																
Depth																
	Unit	EQL	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=0m, <1m	NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand >=1m, <2m	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	CRC CARE 2011 HSL-D Direct Contact	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil >=0m, <2m	NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil	Number of Results	Minimum Concentration	Maximum Concentration	Average Concentration *	Standard Deviation *	95% UCL (Student's-t) *
Organochlorine Pesticides										39					
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Aldrin + Dieldrin	mg/kg	**0.05**	45	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
chlordane	mg/kg	**0.1**	530	-	-	-	-	-	39	<0.1	<1	0.26	0.23	0.32
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
DDD	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
DDT	mg/kg	**0.05**	-	-	-	640	-	-	39	<0.05	<0.5	0.13	0.11	0.16
DDT+DDE+DDD	mg/kg	**0.05**	3,600	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	39	<50	<500	128	114	159.9
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Endrin	mg/kg	**0.05**	100	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Heptachlor	mg/kg	**0.05**	50	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16
Methoxychlor	µg/kg	**50**	2,500,000	-	-	-	-	-	39	<50	<500	128	114	159.9
Toxaphene	mg/kg	**0.5**	160	-	-	-	-	-	39	<0.5	<10	2.4	2.4	3.099
Organophosphorous Pesticides							-							
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Chlorpyrifos	mg/kg	**0.2**	2,000	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	39	<2	<5	1.7	0.76	1.9
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
EPN	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	39	<2	<5	1.7	0.76	1.9
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Omethoate	mg/kg	**2**	-	-	-	-	-	-	39	<2	<5	1.7	0.76	1.9
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Pesticides														
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	39	<0.2	<0.5	0.17	0.076	0.19
Halogenated Benzenes														
Hexachlorobenzene	mg/kg	**0.05**	80	-	-	-	-	-	39	<0.05	<0.5	0.13	0.11	0.16

*No visible forms of asbestos
** Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

Table 2: Soil Analytical Results - EIL Parameter Inputs

754-NTLEN347071

		Field ID	BH02_0.0-0.2	BH05_0.0-0.2	BH06_0.5-0.7	BH08_0.0-0.2	BH09_0.5-0.7	BH18_0.0-0.2
		Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	13 Jun 2024
		Depth	0 - 0.2	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2
	Unit	**EQL**						
Site-specific EIL parameters								
Conductivity (1:5 aqueous extract)	uS/cm	**10**	28	56	150	100	42	150
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	11	17	18	11	19	5.7
pH (lab)	pH Units	**0.1**	6.7	6.3	6.9	6.7	6.7	8.8
TOC	mg/kg	**1,000**	23,000	61,000	250,000	48,000	43,000	4,000
Iron (%)	%	**0.01**	0.86	2.3	1.4	0.71	0.83	1.2
% Clay*	%	**2.5**	5.6	4.4	<2.5	<2.5	13	<2.5

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
Field ID									BH01_0.0-0.2	BH01_0.5-0.7	BH02_0.0-0.2	BH02_0.5-0.7	BH03_0.0-0.2	BH03_1.0-1.2	BH04_0.5-0.7
Date									14 Jun 2024	14 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
Depth									0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0.5 - 0.7
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Physical Parameters															
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	-	-	**11**	-	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	**18**	**17**	**22**	**21**	**12**	**16**	**20**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	-	-	**6.7**	-	-	-	-
TCLP															
pH (initial)															
pH (off)															
Asbestos															
Asbestos detected	Comment		-	-	-	-	-	-	No	No	No		No		No
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	<100	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	<100	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	<100	<100
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	<50	<50	<50	<50	<50	<50	<50
Heavy Metals															
Iron (%)	%	**0.01**	-	-	-	-	-	-	-	-	**0.86**	-	-	-	-
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2
Particle Size															
% Clay*	%	**2.5**	-	-	-	-	-	-	-	-	**5.6**	-	-	-	-
BTEXN															
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**0.7**	<0.5	**0.6**	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**0.8**	<0.5	**0.6**	<0.5	<0.5
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	<0.5	<0.5	**0.9**	<0.5	**0.9**	<0.5	<0.5
	mg/L	**0.1**	-	-	0.04	-	-	0.16	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**1.3**	<0.5	**1.2**	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	**0.6**	**0.6**	**1.5**	**0.6**	**1.4**	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	**1.2**	**1.2**	**1.8**	**1.2**	**1.7**	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**0.7**	<0.5	**0.7**	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**1.2**	<0.5	**1.0**	<0.5	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**1.4**	<0.5	**1.0**	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**4.4**	**0.8**	**3.0**	<0.5	<0.5
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**0.7**	<0.5	**0.6**	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**2.5**	<0.5	**1.3**	<0.5	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	**4.4**	**0.8**	**2.9**	<0.5	<0.5
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	<0.5	<0.5	**18**	**1.6**	**13**	<0.5	<0.5

								Field ID	BH01_0.0-0.2	BH01_0.5-0.7	BH02_0.0-0.2	BH02_0.5-0.7	BH03_0.0-0.2	BH03_1.0-1.2	BH04_0.5-0.7
								Date	14 Jun 2024	14 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
								Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0.5 - 0.7
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste									
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Metals															
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-	**6**	**11**	**6.7**	**13**	**8.6**	**11**	**6.4**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-	< 0.4	< 0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-	**10**	**28**	**11**	**23**	**16**	**17**	**11**
Copper	mg/kg	**5**	-	-	-	-	-	-	**27**	< 5	**17**	<5	**9.8**	<5	**26**
Iron	mg/kg	**20**	-	-	-	-	-	-	-	-	**8,600**	-	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-	**80**	**13**	**57**	**16**	**37**	**16**	**55**
	mg/L	**0.1**	-	-	5	-	-	20	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Mercury	mg/kg	**0.1**	4	50	-	16	200	-	**0.1**	< 0.1	**0.1**	<0.1	**0.2**	<0.1	<0.1
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-	**18**	**12**	**11**	**11**	**13**	**6.5**	**7.2**
	mg/L	**0.1**	-	-	2	-	-	8	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Zinc	mg/kg	**5**	-	-	-	-	-	-	**110**	**33**	**100**	**62**	**92**	**38**	**20**
Inorganics															
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-	-	-	**28**	-	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-	-	-	**23,000**	-	-	-	-
PCBs															
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-	<0.1	<0.1	<1	<0.1	<1	<1	<0.1
Organochlorine Pesticides															
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
chlordane	mg/kg	**0.1**	-	-	-	-	-	-	<1	<0.1	<1	<0.1	<1	<1	<0.1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
DDT	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	<500	<50	<500	<50	<500	<500	<50
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Endrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-	<500	<50	<500	<50	<500	<500	<50
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-	<10	<0.5	<10	<0.5	<10	<10	<0.5

									Field ID	BH01_0.0-0.2	BH01_0.5-0.7	BH02_0.0-0.2	BH02_0.5-0.7	BH03_0.0-0.2	BH03_1.0-1.2	BH04_0.5-0.7
									Date	14 Jun 2024	14 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0.5 - 0.7
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Organophosphorous Pesticides																
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Coumaphos	mg/kg	**2**	-	-	-	-	-	-		<5	<2	<5	<2	<5	<5	<2
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Ethion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
EPN	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Merphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Malathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-		<5	<2	<5	<2	<5	<5	<2
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Omethoate	mg/kg	**2**	-	-	-	-	-	-		<5	<2	<5	<2	<5	<5	<2
Phorate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Pesticides																
Parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2
Halogenated Benzenes																
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.05	<0.5	<0.05	<0.5	<0.5	<0.05

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

									Field ID	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7	BH06_0.5-0.7	BH06_0.5-0.7-F1	BH06_1.0-1.2	BH07_0.0-0.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	1.3 - 1.5	0 - 0.2	0.5 - 0.7	0.5 - 0.7		1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Physical Parameters																
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-		-	**17**	-	**18**	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-		**22**	**37**	**21**	**20**	-	**18**	**15**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-		-	**6.3**	-	**6.9**	-	-	-
TCLP																
pH (initial)																
pH (off)																
Asbestos																
Asbestos detected	Comment		-	-	-	-	-	-			No		No	Chrysotile asbestos detected.		No
Total Recoverable Hydrocarbons																
C6 - C10	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	-	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	-	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	-	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	-	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-		<100	<100	<100	**130**	-	<100	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-		<100	<100	<100	**110**	-	<100	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-		<100	<100	<100	**240**	-	<100	<100
Total Petroleum Hydrocarbons																
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-		<20	<20	<20	<20	-	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	-	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-		**50**	<50	<50	**66**	-	<50	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	**110**	-	<50	<50
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-		**50**	<50	<50	**176**	-	<50	<50
Heavy Metals																
Iron (%)	%	**0.01**	-	-	-	-	-	-		-	**2.3**	-	**1.4**	-	-	-
NA																
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Particle Size																
% Clay*	%	**2.5**	-	-	-	-	-	-		-	**4.4**	-	<2.5	-	-	-
BTEXN																
Benzene	mg/kg	**0.1**	10	18	-	40	72	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-		<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons																
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	mg/L	**0.1**	-	-	0.04	-	-	0.16		-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-		**0.6**	**0.6**	**0.6**	**0.6**	-	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-		**1.2**	**1.2**	**1.2**	**1.2**	-	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	**0.8**
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	**0.5**
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	**0.8**
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	**2.1**

									Field ID	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7	BH06_0.5-0.7	BH06_0.5-0.7-F1	BH06_1.0-1.2	BH07_0.0-0.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	1.3 - 1.5	0 - 0.2	0.5 - 0.7	0.5 - 0.7		1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Metals																
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-		**12**	**11**	**15**	**6.0**	-	**7.9**	**6.3**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-		<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-		**25**	**24**	**33**	**7.8**	-	**15**	**9.2**
Copper	mg/kg	**5**	-	-	-	-	-	-		<5	**24**	<5	**20**	-	**20**	**46**
Iron	mg/kg	**20**	-	-	-	-	-	-		-	**23,000**	-	**14,000**	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-		**11**	**54**	**12**	**41**	-	**77**	**66**
	mg/L	**0.1**	-	-	5	-	-	20		-	-	-	-	-	-	-
Mercury	mg/kg	**0.1**	4	50	-	16	200	-		<0.1	**0.1**	<0.1	<0.1	-	**0.1**	**0.8**
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-		**10**	**11**	**16**	**31**	-	**17**	**34**
	mg/L	**0.1**	-	-	2	-	-	8		-	-	-	-	-	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-		**46**	**170**	**44**	**110**	-	**98**	**140**
Inorganics																
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-		-	**56**	-	**150**	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-		-	**61,000**	-	**250,000**	-	-	-
PCBs																
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Organochlorine Pesticides																
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
chlordane	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
DDT	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	-	<50	<50
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Endrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	-	<50	<50
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5

									Field ID	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7	BH06_0.5-0.7	BH06_0.5-0.7-F1	BH06_1.0-1.2	BH07_0.0-0.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
									Depth	1.3 - 1.5	0 - 0.2	0.5 - 0.7	0.5 - 0.7		1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Organophosphorous Pesticides																
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Coumaphos	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<2	<2	-	<2	<2
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Ethion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
EPN	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Merphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Malathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<2	<2	-	<2	<2
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Omethoate	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<2	<2	-	<2	<2
Phorate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Pesticides																
Parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2
Halogenated Benzenes																
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
Field ID									BH07_0.5-0.7	BH08_0.0-0.2	BH08_1.3-1.5	BH09_0.0-0.2	BH09_0.5-0.7	BH09_0.5-0.7-F	BH09_1.0-1.2
Date									12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
Depth									0.5 - 0.7	0 - 0.2	1.3 - 1.5	0 - 0.2	0.5 - 0.7		1 - 1.2
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Physical Parameters															
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	-	**11**	-	-	**19**	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	**18**	**39**	**20**	**21**	**17**	-	**16**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	-	**6.7**	-	-	**6.7**	-	-
TCLP															
pH (initial)															
pH (off)															
Asbestos															
Asbestos detected	Comment		-	-	-	-	-	-		No			No	Chrysotile and amosite asbestos detected.	
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	-	-	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	-	-	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	-	-	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	-	-	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	-	-	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	-	-	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	-	-	<100
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	<20	<20	<20	<20	-	-	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	-	-	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	**61**	-	-	**53**
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	-	-	<50
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	<50	<50	<50	**61**	-	-	**53**
Heavy Metals															
Iron (%)	%	**0.01**	-	-	-	-	-	-	-	**0.71**	-	-	**0.83**	-	-
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Particle Size															
% Clay*	%	**2.5**	-	-	-	-	-	-	-	<2.5	-	-	**13**	-	-
BTEXN															
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	-	-	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	<0.3	<0.3	<0.3	<0.3	-	-	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.7**	-	-	**0.9**
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**0.8**	-	-	**0.6**
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	<0.5	<0.5	<0.5	1.1	-	-	**0.8**
	mg/L	**0.1**	-	-	0.04	-	-	0.16	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.7**	-	-	**1.2**
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	**0.6**	**0.6**	**0.6**	**1.9**	-	-	**1.4**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	**1.2**	**1.2**	**1.2**	**2.2**	-	-	**1.7**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.5**	-	-	**1.0**
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.8**	-	-	**1.2**
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.7**	-	-	**1.1**
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**2.9**	-	-	**2.0**
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.1**	-	-	**0.7**
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**0.8**	-	-	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**2.7**	-	-	**1.8**
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	<0.5	<0.5	<0.5	**16**	-	-	**10**

								Field ID	BH07_0.5-0.7	BH08_0.0-0.2	BH08_1.3-1.5	BH09_0.0-0.2	BH09_0.5-0.7	BH09_0.5-0.7-F	BH09_1.0-1.2
								Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
								Depth	0.5 - 0.7	0 - 0.2	1.3 - 1.5	0 - 0.2	0.5 - 0.7		1 - 1.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste									
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Metals															
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-	**2.3**	**2.4**	**7.0**	**5.1**	-	-	**6.3**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-	<0.4	**0.5**	<0.4	<0.4	-	-	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-	**8.7**	**7.4**	**17**	**14**	-	-	**9.1**
Copper	mg/kg	**5**	-	-	-	-	-	-	**21**	**11**	<5	**29**	-	-	**6.7**
Iron	mg/kg	**20**	-	-	-	-	-	-	-	**7,100**	-	-	**8,300**	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-	**16**	**29**	**14**	**110**	-	-	**32**
	mg/L	**0.1**	-	-	5	-	-	20	-	-	-	-	-	-	-
Mercury	mg/kg	**0.1**	4	50	-	16	200	-	<0.1	**0.2**	<0.1	**0.2**	-	-	<0.1
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-	**43**	**9.9**	**5.8**	**20**	-	-	**9.1**
	mg/L	**0.1**	-	-	2	-	-	8	-	-	-	-	-	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-	**34**	**64**	**20**	**130**	-	-	**93**
Inorganics															
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-	-	**100**	-	-	**42**	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-	-	**48,000**	-	-	**43,000**	-	-
PCBs															
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-	<0.1	<0.1	<0.1	<1	-	-	<1
Organochlorine Pesticides															
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
chlordane	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<1	-	-	<1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
DDT	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<500	-	-	<500
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Endrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<500	-	-	<500
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<10	-	-	<10

								Field ID	BH07_0.5-0.7	BH08_0.0-0.2	BH08_1.3-1.5	BH09_0.0-0.2	BH09_0.5-0.7	BH09_0.5-0.7-F	BH09_1.0-1.2
								Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
								Depth	0.5 - 0.7	0 - 0.2	1.3 - 1.5	0 - 0.2	0.5 - 0.7		1 - 1.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)						
Organophosphorous Pesticides														
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	<2	<2	<2	<5	-	-	<5
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
EPN	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	<2	<2	<2	<5	-	-	<5
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Omethoate	mg/kg	**2**	-	-	-	-	-	-	<2	<2	<2	<5	-	-	<5
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Pesticides														
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	-	-	<0.5
Halogenated Benzenes														
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.5	-	-	<0.5

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

								Field ID	BH10_0.0-0.2	BH10_0.5-0.7	BH11_0.0-0.2	BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	BH13_0.0-0.2
								Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	13 Jun 2024
								Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)						
Physical Parameters														
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	**22**	**18**	**28**	**20**	**18**	**18**	**9.9**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	-	-	-	-	-	-	-
TCLP															
pH (initial)															7.3
pH (off)															5.2
Asbestos															
Asbestos detected	Comment		-	-	-	-	-	-	No		No		No		No
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<100
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<100
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	**130**	**3,000**
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	**110**	**750**
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	<100	**240**	**3,750**
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<40
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	**64**	**92**	**2,600**
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	**52**	**110**	**920**
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	<50	<50	<50	<50	**116**	**202**	**3,520**
Heavy Metals															
Iron (%)	%	**0.01**	-	-	-	-	-	-	-	-	-	-	-	-	-
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Particle Size															
% Clay*	%	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEXN															
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**58**
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.7**
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**16**
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**58**
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**56**
	mg/L	**0.1**	-	-	0.04	-	-	0.16	-	-	-	-	-	-	**0.003**
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**92**
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**92**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**92**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**49**
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**50**
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**60**
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**14**
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**160**
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**45**
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**99**
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**130**
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**800**

									Field ID	BH10_0.0-0.2	BH10_0.5-0.7	BH11_0.0-0.2	BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	BH13_0.0-0.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	13 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Metals																
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-		**4.8**	**8.1**	**4.9**	**7.8**	**3.7**	**6.0**	**5.6**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-		**11**	**18**	**10**	**19**	**9.1**	**15**	**12**
Copper	mg/kg	**5**	-	-	-	-	-	-		**5.8**	<5	**20**	<5	<5	<5	**44**
Iron	mg/kg	**20**	-	-	-	-	-	-		-	-	-	-	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-		**22**	**11**	**46**	**9.1**	**15**	**9.1**	**170**
	mg/L	**0.1**	-	-	5	-	-	20		-	-	-	-	-	-	**0.02**
Mercury	mg/kg	**0.1**	4	50	-	16	200	-		**0.6**	<0.1	**0.4**	<0.1	**0.3**	**0.2**	<0.1
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-		**17**	**6.6**	**15**	<5	**5.7**	<5	**29**
	mg/L	**0.1**	-	-	2	-	-	8		-	-	-	-	-	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-		**38**	**17**	**97**	**18**	**27**	**14**	**230**
Inorganics																
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-		-	-	-	-	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-		-	-	-	-	-	-	-
PCBs																
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Organochlorine Pesticides																
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
chlordane	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
DDT	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-		<50	<50	<500	<50	<50	<50	<500
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Endrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-		<50	<50	<500	<50	<50	<50	<500
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<10	<0.5	<0.5	<0.5	<10

									Field ID	BH10_0.0-0.2	BH10_0.5-0.7	BH11_0.0-0.2	BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	BH13_0.0-0.2
									Date	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	13 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Organophosphorous Pesticides																
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Coumaphos	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<5	<2	<2	<2	<5
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Ethion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
EPN	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Merphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Malathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<5	<2	<2	<2	<5
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Omethoate	mg/kg	**2**	-	-	-	-	-	-		<2	<2	<5	<2	<2	<2	<5
Phorate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Pesticides																
Parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.5
Halogenated Benzenes																
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-		<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.5

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
Field ID									BH13_1.0-1.2	BH14_0.0-0.2	BH14_0.5-0.7	BH15_0.0-0.2	BH15_1.0-1.2	BH16_0.0-0.2	BH16_0.5-0.7
Date									13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
Depth									1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Physical Parameters															
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	**21**	**16**	**17**	**15**	**15**	**8.3**	**15**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	-	-	-	-	-	-	-
TCLP															
pH (initial)									7.4						
pH (off)									5.2						
Asbestos															
Asbestos detected	Comment		-	-	-	-	-	-		No	No	No		No	
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	<50	**160**	<50	<50	**350**	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	<50	**160**	<50	<50	**350**	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	**480**	**820**	<100	**320**	**570**	**300**	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	**170**	**940**	<100	**110**	<100	**360**	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	**650**	**1,920**	<100	**430**	**920**	**660**	<100
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	<20	**78**	<20	<20	**200**	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	**390**	**470**	<50	**250**	**620**	**140**	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	**180**	**670**	<50	**130**	**110**	**260**	<50
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	**570**	**1,218**	<50	**380**	**930**	**400**	<50
Heavy Metals															
Iron (%)	%	**0.01**	-	-	-	-	-	-	-	-	-	-	-	-	-
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Particle Size															
% Clay*	%	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEXN															
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	**7.6**	<0.5	<0.5	**4.1**	**6.9**	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	**0.7**	<0.5	<0.5	**2.0**	**6.6**	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	**3.9**	<0.5	<0.5	**3.2**	**8.9**	<0.5	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	**8.4**	<0.5	<0.5	**5.0**	**8.1**	<0.5	<0.5
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	**7.7**	<0.5	<0.5	**4.5**	**7.1**	<0.5	<0.5
	mg/L	**0.1**	-	-	0.04	-	-	0.16	**0.002**	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	**13**	<0.5	<0.5	**6.1**	**11**	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	**13**	**0.6**	**0.6**	**6.3**	**11**	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	**13**	**1.2**	**1.2**	**6.6**	**11**	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	**5.5**	<0.5	<0.5	**3.2**	**4.1**	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	**7.9**	<0.5	<0.5	**3.0**	**6.7**	**0.5**	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	**9.6**	<0.5	<0.5	**5.9**	**9.6**	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	**1.9**	<0.5	<0.5	<0.5	**1.6**	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	**27**	**1.2**	<0.5	**17**	**32**	**0.9**	<0.5
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**0.9**	**3.6**	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	**5.3**	<0.5	<0.5	**2.9**	**4.0**	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	**16**	**1.0**	<0.5	**11**	**29**	<0.5	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	**22**	**1.1**	<0.5	**14**	**26**	**0.8**	<0.5
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	**120**	**3.3**	<0.5	**77**	**150**	**2.2**	<0.5

									Field ID	BH13_1.0-1.2	BH14_0.0-0.2	BH14_0.5-0.7	BH15_0.0-0.2	BH15_1.0-1.2	BH16_0.0-0.2	BH16_0.5-0.7
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
									Depth	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Metals																
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-		**7.9**	**4.0**	**8.4**	**11**	**14**	**8.0**	**9.8**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-		**12**	**11**	**20**	**17**	**25**	**12**	**14**
Copper	mg/kg	**5**	-	-	-	-	-	-		**54**	**150**	<5	<5	<5	**10**	<5
Iron	mg/kg	**20**	-	-	-	-	-	-		-	-	-	-	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-		**46**	**26**	**9.2**	**12**	**17**	**15**	**9.1**
	mg/L	**0.1**	-	-	5	-	-	20		-	-	-	-	-	-	-
Mercury	mg/kg	**0.1**	4	50	-	16	200	-		<0.1	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-		**35**	**15**	**5.6**	**8.2**	**6.8**	**17**	<5
	mg/L	**0.1**	-	-	2	-	-	8		-	-	-	-	-	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-		**140**	**65**	**20**	**24**	**23**	**36**	**9.5**
Inorganics																
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-		-	-	-	-	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-		-	-	-	-	-	-	-
PCBs																
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-		<1	<1	<0.1	<1	<1	<1	<0.1
Organochlorine Pesticides																
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
chlordane	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	<0.1	<1	<1	<1	<0.1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
DDT	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-		<500	<500	<50	<500	<500	<500	<50
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Endrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-		<500	<500	<50	<500	<500	<500	<50
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-		<10	<10	<0.5	<10	<10	<10	<0.5

									Field ID	BH13_1.0-1.2	BH14_0.0-0.2	BH14_0.5-0.7	BH15_0.0-0.2	BH15_1.0-1.2	BH16_0.0-0.2	BH16_0.5-0.7
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
									Depth	1 - 1.2	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	0.5 - 0.7
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Organophosphorous Pesticides															
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Coumaphos	mg/kg	**2**	-	-	-	-	-	-		<5	<5	<2	<5	<5	<5	<2
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Ethion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
EPN	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Merphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Malathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-		<5	<5	<2	<5	<5	<5	<2
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Omethoate	mg/kg	**2**	-	-	-	-	-	-		<5	<5	<2	<5	<5	<5	<2
Phorate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Pesticides																
Parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.2
Halogenated Benzenes																
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

									Field ID	BH17_0.0-0.2	BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	BH19_0.0-0.2	BH19_1.0-1.2	BH20_0.0-0.2
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Physical Parameters																
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-		-	-	**5.7**	-	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-		**6.4**	**12**	**8.1**	**14**	**7.3**	**11**	**7.6**
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-		-	-	**8.8**	-	-	-	-
TCLP																
pH (initial)														8.2		
pH (off)														5.2		
Asbestos																
Asbestos detected	Comment		-	-	-	-	-	-		No		No		No		No
Total Recoverable Hydrocarbons																
C6 - C10	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	<50	<50	<50
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	<50	<50	<50
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-		<100	<100	**110**	<100	<100	<100	<100
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-		**170**	<100	**190**	<100	<100	<100	<100
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-		**170**	<100	**300**	<100	<100	<100	<100
Total Petroleum Hydrocarbons																
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-		<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-		<20	<20	<20	<20	<20	<20	<20
C15 - C28	mg/kg	**50**	-	-	-	-	-	-		<50	<50	<50	<50	<50	<50	<50
C29 - C36	mg/kg	**50**	-	-	-	-	-	-		**85**	<50	**130**	<50	**53**	<50	**58**
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-		**85**	<50	**130**	<50	**53**	<50	**58**
Heavy Metals																
Iron (%)	%	**0.01**	-	-	-	-	-	-		-	-	**1.2**	-	-	-	-
NA																
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Particle Size																
% Clay*	%	**2.5**	-	-	-	-	-	-		-	-	<2.5	-	-	-	-
BTEXN																
Benzene	mg/kg	**0.1**	10	18	-	40	72	-		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons																
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	mg/L	**0.1**	-	-	0.04	-	-	0.16		-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

									Field ID	BH17_0.0-0.2	BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	BH19_0.0-0.2	BH19_1.0-1.2	BH20_0.0-0.2
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Metals																
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-		**5.2**	**19**	**4.4**	**6.5**	**4.4**	**13**	**5.5**
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-		**13**	**14**	**12**	**13**	**12**	**24**	**12**
Copper	mg/kg	**5**	-	-	-	-	-	-		**17**	**14**	**15**	<5	**18**	<5	**12**
Iron	mg/kg	**20**	-	-	-	-	-	-		-	-	**12,000**	-	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-		<5	**27**	<5	**7.1**	**7.5**	**11**	<5
	mg/L	**0.1**	-	-	5	-	-	20		-	-	-	-	-	-	-
Mercury	mg/kg	**0.1**	4	50	-	16	200	-		<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-		**50**	**26**	**56**	**5.8**	**65**	**9.8**	**35**
	mg/L	**0.1**	-	-	2	-	-	8		-	-	-	-	**0.07**	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-		**42**	**62**	**46**	**20**	**43**	**52**	**30**
Inorganics																
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-		-	-	**150**	-	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-		-	-	**4,000**	-	-	-	-
PCBs																
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-		<1	<1	-	<0.1	<1	<1	<1
Organochlorine Pesticides																
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
chlordane	mg/kg	**0.1**	-	-	-	-	-	-		<1	<1	-	<0.1	<1	<1	<1
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
DDT	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-		<500	<500	-	<50	<500	<500	<500
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Endrin	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-		<500	<500	-	<50	<500	<500	<500
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-		<10	<10	-	<0.5	<10	<10	<10

									Field ID	BH17_0.0-0.2	BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	BH19_0.0-0.2	BH19_1.0-1.2	BH20_0.0-0.2
									Date	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024	13 Jun 2024
									Depth	0 - 0.2	0.5 - 0.7	0 - 0.2	1 - 1.2	0 - 0.2	1 - 1.2	0 - 0.2
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste										
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)								
Organophosphorous Pesticides																
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Coumaphos	mg/kg	**2**	-	-	-	-	-	-		<5	<5	-	<2	<5	<5	<5
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Ethion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
EPN	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Merphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Malathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-		<5	<5	-	<2	<5	<5	<5
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Omethoate	mg/kg	**2**	-	-	-	-	-	-		<5	<5	-	<2	<5	<5	<5
Phorate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Pesticides																
Parathion	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-		<0.5	<0.5	-	<0.2	<0.5	<0.5	<0.5
Halogenated Benzenes																
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-		<0.5	<0.5	-	<0.05	<0.5	<0.5	<0.5

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
Field ID									BH20_0.5-0.7	QC1	QC2	QC3	QC4	Trip Blank	Trip Blank
Date									13 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
Depth									0.5 - 0.7						
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Physical Parameters															
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	**16**	**24**	**30**	**13**	**15**	-	-
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	-	-	-	-	-	-	-
TCLP															
pH (initial)															
pH (off)															
Asbestos															
Asbestos detected	Comment		-	-	-	-	-	-						-	-
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	-	-
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	<50	<50	<50	<50	<50	-	-
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	<100	**100**	<100	<100	**110**	-	-
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	<100	<100	<100	<100	**150**	-	-
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	<100	**100**	<100	<100	**260**	-	-
Total Petroleum Hydrocarbons															
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	<20	<20	<20	<20	<20	<20	<20
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	<20	<20	<20	<20	<20	-	-
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	<50	**63**	<50	<50	<50	-	-
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	**55**	**76**	<50	**50**	**110**	-	-
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	**55**	**139**	<50	**50**	**110**	-	-
Heavy Metals															
Iron (%)	%	**0.01**	-	-	-	-	-	-	-	-	-	-	-	-	-
NA															
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Particle Size															
% Clay*	%	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEXN															
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
	mg/L	**0.1**	-	-	0.04	-	-	0.16	-	-	-	-	-	-	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	-	-
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**	-	-
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	**0.5**	<0.5	<0.5	<0.5	-	-
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	<0.5	**0.5**	<0.5	<0.5	<0.5	-	-

								Field ID	BH20_0.5-0.7	QC1	QC2	QC3	QC4	Trip Blank	Trip Blank
								Date	13 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
								Depth	0.5 - 0.7						
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste									
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)						
Metals														
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-	**8.8**	**7.4**	**5.8**	**11**	**12**	-	-
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-	<0.4	<0.4	<0.4	<0.4	<0.4	-	-
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-	**14**	**13**	**12**	**19**	**12**	-	-
Copper	mg/kg	**5**	-	-	-	-	-	-	<5	**21**	**20**	<5	**17**	-	-
Iron	mg/kg	**20**	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-	**7.6**	**55**	**46**	**9.2**	**15**	-	-
	mg/L	**0.1**	-	-	5	-	-	20	-	-	-	-	-	-	-
Mercury	mg/kg	**0.1**	4	50	-	16	200	-	<0.1	**0.3**	**0.3**	<0.1	<0.1	-	-
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-	**5.7**	**25**	**18**	**16**	**32**	-	-
	mg/L	**0.1**	-	-	2	-	-	8	-	-	-	-	-	-	-
Zinc	mg/kg	**5**	-	-	-	-	-	-	**23**	**110**	**93**	**39**	**47**	-	-
Inorganics															
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-
TOC	mg/kg	**1,000**	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs															
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-	<0.1	-	-	-	-	-	-
Organochlorine Pesticides															
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
chlordane	mg/kg	**0.1**	-	-	-	-	-	-	<0.1	-	-	-	-	-	-
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
DDT	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	<50	-	-	-	-	-	-
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Endrin	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-	<50	-	-	-	-	-	-
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-	<0.5	-	-	-	-	-	-

Field ID								BH20_0.5-0.7	QC1	QC2	QC3	QC4	Trip Blank	Trip Blank
Date								13 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024	12 Jun 2024
Depth								0.5 - 0.7						
			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste									
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)							
Organophosphorous Pesticides															
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-	<0.2	-	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	<2	-	-	-	-	-	-
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
EPN	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	<2	-	-	-	-	-	-
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Omethoate	mg/kg	**2**	-	-	-	-	-	-	<2	-	-	-	-	-	-
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Pesticides															
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	<0.2	-	-	-	-	-	-
Halogenated Benzenes															
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-	<0.05	-	-	-	-	-	-

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste							
Field ID													
Date													
Depth													
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)	Number of Results	Minimum Concentration	Maximum Concentration	Average Concentration *	Standard Deviation *	95% UCL (Student's-t) *
Physical Parameters														
Cation Exchange Capacity (CEC)	meq/100g	**0.5**	-	-	-	-	-	-	6	5.7	19	14	5.2	17.91
Moisture Content (dried @ 103°C)	%	**1**	-	-	-	-	-	-	43	6.4	39	18	6.9	19.47
pH (lab)	pH Units	**0.1**	-	-	-	-	-	-	6	6.3	8.8	7	0.9	7.753
TCLP														
pH (initial)														
pH (off)														
Asbestos														
Asbestos detected	Comment		-	-	-	-	-	-	22	1	1	1	0	1
Total Recoverable Hydrocarbons														
C6 - C10	mg/kg	**20**	-	-	-	-	-	-	44	<20	<20	10	0	10
F1 (C6 - C10) less BTEX	mg/kg	**20**	-	-	-	-	-	-	44	<20	<20	10	0	10
C10 - C16	mg/kg	**50**	-	-	-	-	-	-	42	<50	350	37	54	50.53
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**	-	-	-	-	-	-	42	<50	350	37	54	50.53
F3 (C16 - C34)	mg/kg	**100**	-	-	-	-	-	-	42	100	3,000	181	473	304.3
F4 (C34 - C40)	mg/kg	**100**	-	-	-	-	-	-	42	<100	940	111	177	157
C10 - C40 (Sum of total)	mg/kg	**100**	-	-	-	-	-	-	42	100	3,750	265	645	432.8
Total Petroleum Hydrocarbons														
C6 - C9	mg/kg	**20**	650	6,500	-	2,600	2,600	-	44	<20	<20	10	0	10
C10 - C14	mg/kg	**20**	-	-	-	-	-	-	42	<20	200	16	31	24.4
C15 - C28	mg/kg	**50**	-	-	-	-	-	-	42	50	2,600	134	410	240.8
C29 - C36	mg/kg	**50**	-	-	-	-	-	-	42	50	920	90	170	134.1
C10 - C36 (Sum of total)	mg/kg	**50**	10,000	10,000	-	40,000	40,000	-	42	50	3,520	212	577	361.9
Heavy Metals														
Iron (%)	%	**0.01**	-	-	-	-	-	-	6	0.71	2.3	1.2	0.59	1.702
NA														
Tokuthion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Particle Size														
% Clay*	%	**2.5**	-	-	-	-	-	-	6	<2.5	13	4.5	4.6	8.231
BTEXN														
Benzene	mg/kg	**0.1**	10	18	-	40	72	-	44	<0.1	<0.1	0.05	0	0.05
Toluene	mg/kg	**0.1**	288	518	-	1,152	2,073	-	44	<0.1	<0.1	0.05	0	0.05
Ethyl Benzene	mg/kg	**0.1**	600	1,080	-	2,400	4,320	-	44	<0.1	<0.1	0.05	0	0.05
m,p-Xylene	mg/kg	**0.2**	-	-	-	-	-	-	44	<0.2	<0.2	0.1	0	0.1
o-Xylene	mg/kg	**0.1**	-	-	-	-	-	-	44	<0.1	<0.1	0.05	0	0.05
Total Xylenes	mg/kg	**0.3**	1,000	1,800	-	4,000	7,200	-	44	<0.3	<0.3	0.15	0	0.15
Naphthalene (VOC)	mg/kg	**0.5**	-	-	-	-	-	-	44	<0.5	<0.5	0.25	0	0.25
Polycyclic Aromatic Hydrocarbons														
Benzo(b+j)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	58	2.1	9	4.45
Acenaphthene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	6.6	0.56	1.2	0.872
Acenaphthylene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	<0.5	0.25	0	0.25
Anthracene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	16	0.99	2.8	1.716
Benz(a)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	58	2.2	9	4.503
Benzo(a) pyrene	mg/kg	**0.5**	0.8	10	-	3.2	23	-	42	<0.5	56	2.1	8.7	4.337
	mg/L	**0.1**	-	-	0.04	-	-	0.16						
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	92	3.2	14	6.946
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**	-	-	-	-	-	-	42	0.6	92	3.5	14	7.237
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**	-	-	-	-	-	-	42	1.2	92	4.1	14	7.731
Benzo(g,h,i)perylene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	49	1.8	7.5	3.726
Benzo(k)fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	42	0.5	50	1.9	7.8	3.956
Chrysene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	60	2.4	9.4	4.784
Dibenz(a,h)anthracene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	14	0.65	2.1	1.203
Fluoranthene	mg/kg	**0.5**	-	-	-	-	-	-	42	0.5	160	6.2	25	12.73
Fluorene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	3.6	0.42	0.68	0.593
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	45	1.6	6.9	3.438
Naphthalene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	<0.5	0.25	0	0.25
Phenanthrene	mg/kg	**0.5**	-	-	-	-	-	-	42	0.5	99	4	16	8.158
Pyrene	mg/kg	**0.5**	-	-	-	-	-	-	42	<0.5	130	5.1	20	10.43
PAHs (Sum of total)	mg/kg	**0.5**	200	200	-	800	800	-	42	0.5	800	29	126	61.72

			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste							
Field ID													
Date													
Depth													
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)	Number of Results	Minimum Concentration	Maximum Concentration	Average Concentration *	Standard Deviation *	95% UCL (Student's-t) *
Metals														
Arsenic	mg/kg	**2**	100	500	-	400	2,000	-	42	2.3	19	8	3.6	8.884
Cadmium	mg/kg	**0.4**	20	100	-	80	400	-	42	<0.4	0.5	0.21	0.046	0.219
Chromium (III+VI)	mg/kg	**5**	-	-	-	-	-	-	42	7.4	33	15	5.5	16.28
Copper	mg/kg	**5**	-	-	-	-	-	-	42	<5	150	16	25	22.85
Iron	mg/kg	**20**	-	-	-	-	-	-	6	7,100	23,000	12,167	5,901	17,021
Lead	mg/kg	**5**	100	1,500	-	400	6,000	-	42	<5	170	30	32	38.18
	mg/L	**0.1**	-	-	5	-	-	20						
Mercury	mg/kg	**0.1**	4	50	-	16	200	-	42	0.1	0.8	0.13	0.16	0.174
Nickel	mg/kg	**5**	40	1,050	-	160	4,200	-	42	<5	65	18	15	22.2
	mg/L	**0.1**	-	-	2	-	-	8						
Zinc	mg/kg	**5**	-	-	-	-	-	-	42	9.5	230	63	48	75.1
Inorganics														
Conductivity (1:5 aqueous extract)	uS/cm	**10**	-	-	-	-	-	-	6	28	150	88	54	132.1
TOC	mg/kg	**1,000**	-	-	-	-	-	-	6	4,000	250,000	71,500	89,717	145,305
PCBs														
Arochlor 1016	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1221	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1232	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1242	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1248	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1254	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Arochlor 1260	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
PCBs (Sum of total)	mg/kg	**0.1**	50	50	-	50	50	-	37	<0.1	<1	0.26	0.23	0.32
Organochlorine Pesticides														
Organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
Other organochlorine pesticides EPAVic	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
4,4-DDE	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
a-BHC	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Aldrin	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Aldrin + Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
b-BHC	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
chlordane	mg/kg	**0.1**	-	-	-	-	-	-	37	<0.1	<1	0.26	0.23	0.32
d-BHC	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
DDD	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
DDT	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
DDT+DDE+DDD	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Dieldrin	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Endrin aldehyde	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Endrin ketone	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Endosulfan I	µg/kg	**50**	-	-	-	-	-	-	37	<50	<500	128	114	159.9
Endosulfan II	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Endosulfan sulphate	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Endrin	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
g-BHC (Lindane)	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Heptachlor	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Heptachlor epoxide	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16
Methoxychlor	µg/kg	**50**	-	-	-	-	-	-	37	<50	<500	128	114	159.9
Toxaphene	mg/kg	**0.5**	-	-	-	-	-	-	37	<0.5	<10	2.4	2.4	3.099

Field ID Date Depth			NSW 2014 General Solid Waste			NSW 2014 Restricted Solid Waste								
	Unit	EQL	CT1 (No Leaching) (mg/kg)	SCC1 (leached) (mg/kg)	TCLP1 (leached) (mg/L)	CT2 (No Leaching)(mg/kg)	SCC2 (leached) (mg/kg)	TCLP2 (leached) (mg/L)	Number of Results	Minimum Concentration	Maximum Concentration	Average Concentration *	Standard Deviation *	95% UCL (Student's-t) *
Organophosphorous Pesticides														
Azinophos methyl	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Bolstar (Sulprofos)	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Chlorfenvinphos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Chlorpyrifos	mg/kg	**0.2**	4	7.5	-	16	30	-	37	<0.2	<0.5	0.17	0.076	0.19
Chlorpyrifos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Coumaphos	mg/kg	**2**	-	-	-	-	-	-	37	<2	<5	1.7	0.76	1.9
Demeton-O	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Demeton-S	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Diazinon	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Dichlorvos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Disulfoton	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Dimethoate	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Ethoprop	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Ethion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Fenitrothion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Fensulfothion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Fenthion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
EPN	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Merphos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Malathion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Methyl parathion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Mevinphos (Phosdrin)	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Monocrotophos	mg/kg	**2**	-	-	-	-	-	-	37	<2	<5	1.7	0.76	1.9
Naled (Dibrom)	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Omethoate	mg/kg	**2**	-	-	-	-	-	-	37	<2	<5	1.7	0.76	1.9
Phorate	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Pyrazophos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Ronnel	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Terbufos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Trichloronate	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Tetrachlorvinphos	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Pesticides														
Parathion	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Pirimiphos-methyl	mg/kg	**0.2**	-	-	-	-	-	-	37	<0.2	<0.5	0.17	0.076	0.19
Halogenated Benzenes														
Hexachlorobenzene	mg/kg	**0.05**	-	-	-	-	-	-	37	<0.05	<0.5	0.13	0.11	0.16

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

Statistics
* A Non Detect Multiplier of 0.5 has been applied.

Table 4: Soil Analytical Results - Trip Spikes and Trip Blanks

		Field ID	Trip Blank	Trip Blank	Trip Spike	Trip Spike
		Date	12 Jun 2024	13 Jun 2024	12 Jun 2024	13 Jun 2024
		Matrix Type	Soil	Soil	Soil	Soil
	Unit	**EQL**				
Total Recoverable Hydrocarbons						
C6 - C10	mg/kg	**20**	<20	<20	87	97
F1 (C6 - C10) less BTEX	mg/kg	**20**	<20	<20	-	-
BTEXN						
Benzene	mg/kg	**0.1**	<0.1	<0.1	80	87
Toluene	mg/kg	**0.1**	<0.1	<0.1	87	97
Ethyl Benzene	mg/kg	**0.1**	<0.1	<0.1	85	95
m,p-Xylene	mg/kg	**0.2**	<0.2	<0.2	88	98
o-Xylene	mg/kg	**0.1**	<0.1	<0.1	93	100
Total Xylenes	mg/kg	**0.3**	<0.3	<0.3	91	99
Naphthalene (VOC)	mg/kg	**0.5**	<0.5	<0.5	-	-

			Field ID	BH11_0.0-0.2	QC2		BH11_0.0-0.2	QC1		BH17_0.5-0.7	QC4		BH17_0.5-0.7	QC3	
			Date	12 Jun 2024	12 Jun 2024		12 Jun 2024	12 Jun 2024		13 Jun 2024	12 Jun 2024		13 Jun 2024	12 Jun 2024	
			Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
			Lab Report Number	1107687	1107687	RPD	1107687	1107687	RPD	1107687	1107687	RPD	1107687	1107687	RPD
	Unit	EQL													
Total Recoverable Hydrocarbons															
C6 - C10	mg/kg	**20**		<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0
F1 (C6 - C10) less BTEX	mg/kg	**20**		<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0
C10 - C16	mg/kg	**50**		<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
F2 C10 - C16 (minus Naphthalene)	mg/kg	**50**		<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
F3 (C16 - C34)	mg/kg	**100**		<100	<100	0	<100	**100**	0	<100	**110**	10	<100	<100	0
F4 (C34 - C40)	mg/kg	**100**		<100	<100	0	<100	<100	0	<100	**150**	40	<100	<100	0
NA															
Tokuthion	mg/kg	**0.2**		<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
BTEXN															
Benzene	mg/kg	**0.1**		<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Toluene	mg/kg	**0.1**		<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Ethyl Benzene	mg/kg	**0.1**		<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
m,p-Xylene	mg/kg	**0.2**		<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0
o-Xylene	mg/kg	**0.1**		<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Total Xylenes	mg/kg	**0.3**		<0.3	<0.3	0	<0.3	<0.3	0	<0.3	<0.3	0	<0.3	<0.3	0
Naphthalene (VOC)	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Polycyclic Aromatic Hydrocarbons															
Benzo(b+j)fluoranthene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Acenaphthene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<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	<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	<0.5	<0.5	0	<0.5	<0.5	0
Benz(a)anthracene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<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	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(a)pyrene TEQ calc (Half)	mg/kg	**0.5**		**0.6**	**0.6**	0	**0.6**	**0.6**	0	**0.6**	**0.6**	0	**0.6**	**0.6**	0
Benzo(a)pyrene TEQ (LOR)	mg/kg	**0.5**		**1.2**	**1.2**	0	**1.2**	**1.2**	0	**1.2**	**1.2**	0	**1.2**	**1.2**	0
Benzo(g,h,i)perylene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(k)fluoranthene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Chrysene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Dibenz(a,h)anthracene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<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	<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	<0.5	<0.5	0	<0.5	<0.5	0
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.5**		<0.5	<0.5	0	<0.5	<0.5	0	<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	<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	<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	<0.5	<0.5	0	<0.5	<0.5	0
Metals															
Arsenic	mg/kg	**2**		**4.9**	**5.8**	17	**4.9**	**7.4**	41	**19**	**12**	45	**19**	**11**	53
Cadmium	mg/kg	**0.4**		<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
Chromium (III+VI)	mg/kg	**5**		**10**	**12**	18	**10**	**13**	26	**14**	**12**	15	**14**	**19**	30
Copper	mg/kg	**5**		**20**	**20**	0	**20**	**21**	5	**14**	**17**	19	**14**	<5	95
Lead	mg/kg	**5**		**46**	**46**	0	**46**	**55**	18	**27**	**15**	57	**27**	**9.2**	98
Mercury	mg/kg	**0.1**		**0.4**	**0.3**	29	**0.4**	**0.3**	29	**0.1**	<0.1	0	**0.1**	<0.1	0
Nickel	mg/kg	**5**		**15**	**18**	18	**15**	**25**	50	**26**	**32**	21	**26**	**16**	48
Zinc	mg/kg	**5**		**97**	**93**	4	**97**	**110**	13	**62**	**47**	28	**62**	**39**	46

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 50 (1 - 10 x EQL); 50 (10 - 20 x EQL); 30 (> 20 x EQL))

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

APPENDIX L: CALIBRATION CERTIFICATE

PID Calibration Certificate

Instrument PhoCheck Tiger
Serial No. T-110623

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	**Low**	**High**	**TWA**	**STEL**
	Settings	✓	50ppm	100ppm		
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No		Instrument Reading
PID Lamp		97PPM Isobutylene	NATA	SY561		97.3 ppm

Calibrated by: **Alex Buist**

Calibration date: **4/06/2024**

Next calibration due: **1/12/2024**

APPENDIX M: LABORATORY CERTIFICATES

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TETRA TECH COFFEY

Consigning Office:	Newcastle				
Report Results to:		Mobile:	+61421256834 +61428418368	Email:	Wnedy.Cadelago@tetratech.com Peter.sanderson@tetratech.com
Invoices to:	Nadine Caldwell	Phone:	+61 428 861 328	Email:	nadine.caldwell@tetratech.com

Project No:	754-NTLEN347071	Task No:	
Project Name:	Cessnock Hospital	Laboratory:	Eurofins
Sampler's Name:	Peter Sanderson	Project Manager:	Wendy Cadelago
Quote Number:		QUOTE#181018COF	
Special Instructions:			

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	B7	OCP/OPP/PCB	NEPM Suite	B1 - TRH, BTEX	Hold	Asbestos NEPM	NOTES
	BH02_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X	X			X	
	BH02_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X					
	BH02_1.0-1.2	12/06/2024		Soil	Jar	Std					X		
	BH03_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH03_0.5-0.7	12/06/2024		Soil	Jar, Z	Std					X		
	BH03_1.0-1.2	12/06/2024		Soil	Jar	Std	X	X					
	BH04_0.0-0.2	12/06/2024		Soil	Jar, Z	Std					X		
	BH04_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH04_1.3-1.5	12/06/2024		Soil	Jar	Std	X	X					
	BH05_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X	X			X	
	BH05_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X					
	BH05_1.0-1.2	12/06/2024		Soil	Jar	Std					X		
	BH06_0.0-0.2	12/06/2024		Soil	Jar, Z	Std					X		
	BH06_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X	X			X	
	BH06_1.0-1.2	12/06/2024		Soil	Jar	Std	X	X					
	BH06_1.3-1.5	12/06/2024		Soil	Jar	Std					X		
	BH07_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH07_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X					
	BH07_1.0-1.2	12/06/2024		Soil	Jar	Std					X		
	BH08_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X	X			X	

110768-7

RELINQUISHED BY

Name:	Peter Sanderson	Date:	14/06/2024
Tetra Tech Coffey		Time:	
Name:		Date:	
Company:		Time:	

x

Name:	Skandalis	Date:	14/6
Company:		Time:	11:00
Name:		Date:	
Company:		Time:	

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** P - Plastic, G- Glass Bottle, J - Glass Jar, V- Vial, Z - Ziplock bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative

TETRA TECH COFFEY

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Project No:	754-NTLEN347071	Task No:	
Project Name:	Cessnock Hospital	Laboratory:	Eurofins
Sampler's Name:	Peter Sanderson	Project Manager:	Wendy Cadelago
Quote Number:		QUOTE#181018COF	
Special Instructions:			

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix *(Soil...etc)*	Container Type & Preservative*	T-A-T *(specify)*	B7	OCP/OPP/PCB	NEPM Suite	B1 - TRH, BTEX	Hold	Asbestos NEPM	NOTES
	BH08_0.5-0.7	12/06/2024		Soil	Jar, Z	Std							
	BH08_1.3-1.5	12/06/2024		Soil	Jar	Std	X	X			X		
	BH09_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X					
	BH09_0.5-0.7	12/06/2024		Soil	Jar, Z	Std			X			X	
	BH09_1.0-1.2	12/06/2024		Soil	Jar	Std	X	X					
	BH10_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH10_0.5-0.7	12/06/2024		Soil	Jar, Z	Std	X	X					
	BH10_1.0-1.2	12/06/2024		Soil	Jar	Std					X		
	BH11_0.0-0.2	12/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH11_0.5-0.7	12/06/2024		Soil	Jar, Z	Std					X		
	BH11_1.0-1.2	12/06/2024		Soil	Jar	Std	X	X					
	BH11_1.3-1.5	12/06/2024		Soil	Jar	Std					X		
	BH12_0.0-0.2	12/06/2024		Soil	Jar	Std	X	X				X	
	BH12_0.5-0.7	12/06/2024		Soil	Jar	Std	X	X					
	BH12_1.0-1.2	12/06/2024		Soil	Jar	Std					X		
	BH13_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH13_0.5-0.7	13/06/2024		Soil	Jar, Z	Std					X		
	BH13_1.0-1.2	13/06/2024		Soil	Jar	Std	X	X					
	BH13_1.3-1.5	13/06/2024		Soil	Jar	Std					X		
	BH14_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	

110768 7

RELINQUISHED BY

Name:	Peter Sanderson	Date:	14/06/2024
Tetra Tech Coffey		Time:	
Name:		Date:	
Company:		Time:	

x

Name:	J Sandan	Date:	14/6
Company:		Time:	11:00
Name:		Date:	
Company:		Time:	

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

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Project No:	754-NTLEN347071	Task No:	
Project Name:	Cessnock Hospital	Laboratory:	Eurofins
Sampler's Name:	Peter Sanderson	Project Manager:	Wendy Cadelago
Quote Number:	QUOTE#181018COF		
Special Instructions:			

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	B7	OCP/OPP/PCB	NEPM Suite	B1 - TRH, BTEX	Hold	Asbestos NEPM	NOTES
	BH14_0.5-0.7	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH014_1.0-1.2	13/06/2024		Soil	Jar	Std					X		
	BH15_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH15_0.5-0.7	13/06/2024		Soil	Jar, Z	Std					X		
	BH15_1.0-1.2	13/06/2024		Soil	Jar	Std	X	X					
	BH16_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH16_0.5-0.7	13/06/2024		Soil	Jar, Z	Std	X	X					
	BH16_1.0-1.2	13/06/2024		Soil	Jar	Std					X		
	BH17_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH17_0.5-0.7	13/06/2024		Soil	Jar, Z	Std	X	X					
	BH17_1.3-1.5	13/06/2024		Soil	Jar	Std					X		
	BH18_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X		X			X	
	BH18_0.5-0.7	13/06/2024		Soil	Jar, Z	Std					X		
	BH18_1.0-1.2	13/06/2024		Soil	Jar	Std	X	X					
	BH19_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH19_0.5-0.7	13/06/2024		Soil	Jar, Z	Std					X		
	BH19_1.0-1.2	13/06/2024		Soil	Jar	Std	X	X					
	BH20_0.0-0.2	13/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH20_0.5-0.7	13/06/2024		Soil	Jar, Z	Std	X	X					
	BH20_1.0-1.2	13/06/2024		Soil	Jar	Std					X		

110768 7

RELINQUISHED BY

Name:	Peter Sanderson	Date:	14/06/2024	Name:	Date: 14/6
Tetra Tech Coffey		Time:		Company:	Time: 1500pm
Name:		Date:		Name:	Date:
Company:		Time:		Company:	Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition	☐
All Documentation is in Proper Order	☐
Samples Received Properly Chilled	☐
Lab. Ref/Batch No.	

***Container Type & Preservation Codes: P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative

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Project No:	754-NTLEN347071	Task No:	
Project Name:	Cessnock Hospital	Laboratory:	Eurofins
Sampler's Name:	Peter Sanderson	Project Manager:	Wendy Cadelago
Quote Number:		QUOTE#181018COF	
Special Instructions:			

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	B7	OCP/OPP/PCB	NEPM Suite	B1 - TRH, BTEX	Hold	Asbestos ID	NOTES
	QC1	12/06/2024		Soil	Jar	Std	X						
	QC2	12/06/2024		Soil	Jar	Std	X						
	QC3	12/06/2024		Soil	Jar	Std	X						
	QC4	12/06/2024		Soil	Jar	Std	X						
	Trip Spike	12/06/2024		Soil	Jar	Std				X			
	Trip Blank	12/06/2024		Soil	Jar	Std				X			
	Trip Spike	13/06/2024		Soil	Jar	Std				X			
	Trip Blank	13/06/2024		Soil	Jar	Std				X			
	BH06_0.5-0.7-F1	12/06/2024		ACM	Z	Std						X	
	BH09_0.5-0.7-F	12/06/2024		ACM	Z	Std						X	

110768 7

RELINQUISHED BY

Name:	Peter Sanderson	Date:	14/06/2024
Tetra Tech Coffey		Time:	
Name:		Date:	
Company:		Time:	

x

Name:	Sanderson	Date:	14/6
Company:		Time:	11:08
Name:		Date:	
Company:		Time:	

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** P - Plastic, G- Glass Bottle, J - Glass Jar, V- Vial, Z - Ziplock bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Eurofins ARL Pty Ltd

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+61 8 6253 4444
NATA# 2377
Site# 2370

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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

Sample Receipt Advice

Company name: Tetra Tech Coffey P/L N castle
Contact name: Wendy Cadelago
Project name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071
Turnaround time: 5 Day
Date/Time received Jun 14, 2024 11:56 AM
Eurofins reference 1107687

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 16.7 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Extra samples BH04_1.0-1.2 and BH19_1.3-1.5 logged on hold

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 Wendy Cadelago - wendy.cadelago@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey P/L N castle email address.

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Eurofins ARL Pty Ltd
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NATA# 2377
Site# 2370

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NATA# 2561
Site# 2554

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NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X			
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	BH02_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032479	X			X	X	X	X		
2	BH02_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032480				X	X		X		
3	BH03_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032481	X			X	X		X		
4	BH03_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032482				X	X		X		
5	BH04_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032483	X			X	X		X		
6	BH04_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032484				X	X		X		
7	BH05_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032485	X			X	X	X	X		
8	BH05_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032486				X	X		X		
9	BH06_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032487	X			X	X	X	X		
10	BH06_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032488				X	X		X		
11	BH07_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032489	X			X	X		X		
12	BH07_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032490				X	X		X		

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

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ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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NATA# 2561
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
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NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
13	BH08_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032491	X			X	X	X	X		
14	BH08_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032492				X	X		X		
15	BH09_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032493				X	X		X		
16	BH09_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032494	X				X	X			
17	BH09_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032495				X	X		X		
18	BH10_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032496	X			X	X		X		
19	BH10_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032497				X	X		X		
20	BH11_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032498	X			X	X		X		
21	BH11_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032499				X	X		X		
22	BH12_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032500	X			X	X		X		
23	BH12_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032501				X	X		X		
24	BH13_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032502	X			X	X		X		
25	BH13_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032503				X	X		X		
26	BH14_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032504	X			X	X		X		
27	BH14_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032505	X			X	X		X		

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
28	BH15_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032506	X			X	X		X		
29	BH15_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032507				X	X		X		
30	BH16_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032508	X			X	X		X		
31	BH16_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032509				X	X		X		
32	BH17_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032510	X			X	X		X		
33	BH17_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032511				X	X		X		
34	BH18_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032512	X				X	X	X		
35	BH18_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032513				X	X		X		
36	BH19_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032514	X			X	X		X		
37	BH19_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032515				X	X		X		
38	BH20_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032516	X			X	X		X		
39	BH20_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032517				X	X		X		
40	QC1	Jun 12, 2024		Soil	N24-Jn0032518					X		X		
41	QC2	Jun 12, 2024		Soil	N24-Jn0032519					X		X		
42	QC3	Jun 12, 2024		Soil	N24-Jn0032520					X		X		

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
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NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
43	QC4	Jun 12, 2024		Soil	N24-Jn0032521					X		X		
44	BH06_0.5-0.7-F1	Jun 12, 2024		Building Materials	N24-Jn0032522		X							
45	BH09_0.5-0.7-F	Jun 12, 2024		Building Materials	N24-Jn0032523		X							
46	BH02_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032524			X						
47	BH03_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032525			X						
48	BH04_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032526			X						
49	BH05_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032527			X						
50	BH06_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032528			X						
51	BH07_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032529			X						
52	BH08_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032530			X						
53	BH10_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032531			X						
54	BH11_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032532			X						
55	BH12_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032533			X						

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Address: Unit 4, 60 Griffith Road
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NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
56	BH13_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032534			X						
57	BH14_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032535			X						
58	BH15_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032536			X						
59	BH16_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032537			X						
60	BH17_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032538			X						
61	BH18_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032539			X						
62	BH19_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032540			X						
63	BH20_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032541			X						
64	BH06_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032542			X						
65	BH11_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032543			X						
66	BH13_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032544			X						
67	Trip Spike Lab	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032545								X	
68	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032546									X

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Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
69	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032547								X	
70	Trip Spike Lab	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032548									X
71	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032549									X
72	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032550								X	
73	BH04_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032921			X						
74	BH19_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032922			X						
Test Counts						20	2	23	37	43	6	42	3	3

Certificate of Analysis

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.

Tetra Tech Coffey Pty Ltd Newcastle
Unit 4, 60 Griffith Road
Lambton
NSW 2299

Attention:	Wendy Cadelago
Report	1107687-AID
Project Name	CESSNOCK HOSPTIAL
Project ID	754-NTLEN347071
Received Date	Jun 14, 2024
Date Reported	Jun 26, 2024

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.*

Project Name CESSNOCK HOSPTIAL
Project ID 754-NTLEN347071
Date Sampled Jun 12, 2024 to Jun 13, 2024
Report 1107687-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH02_0.0-0.2	24-Jn0032479	Jun 12, 2024	Approximate Sample 393g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH03_0.0-0.2	24-Jn0032481	Jun 12, 2024	Approximate Sample 381g Sample consisted of: Brown coarse grained sandy clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH04_0.5-0.7	24-Jn0032483	Jun 12, 2024	Approximate Sample 340g Sample consisted of: Brown fine-grained clayey soil, coal, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH05_0.0-0.2	24-Jn0032485	Jun 12, 2024	Approximate Sample 263g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH06_0.5-0.7	24-Jn0032487	Jun 12, 2024	Approximate Sample 327g Sample consisted of: Brown coarse-grained soil, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH07_0.0-0.2	24-Jn0032489	Jun 12, 2024	Approximate Sample 342g Sample consisted of: Brown coarse-grained soil, coal, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH08_0.0-0.2	24-Jn0032491	Jun 12, 2024	Approximate Sample 371g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH09_0.5-0.7	24-Jn0032494	Jun 12, 2024	Approximate Sample 392g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH10_0.0-0.2	24-Jn0032496	Jun 12, 2024	Approximate Sample 476g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH11_0.0-0.2	24-Jn0032498	Jun 12, 2024	Approximate Sample 338g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH12_0.0-0.2	24-Jn0032500	Jun 12, 2024	Approximate Sample 387g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH13_0.0-0.2	24-Jn0032502	Jun 13, 2024	Approximate Sample 328g Sample consisted of: Brown coarse-grained soil, bitumen, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH14_0.0-0.2	24-Jn0032504	Jun 13, 2024	Approximate Sample 389g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH14_0.5-0.7	24-Jn0032505	Jun 13, 2024	Approximate Sample 391g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH15_0.0-0.2	24-Jn0032506	Jun 13, 2024	Approximate Sample 381g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH16_0.0-0.2	24-Jn0032508	Jun 13, 2024	Approximate Sample 311g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH17_0.0-0.2	24-Jn0032510	Jun 13, 2024	Approximate Sample 484g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH18_0.0-0.2	24-Jn0032512	Jun 13, 2024	Approximate Sample 257g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH19_0.0-0.2	24-Jn0032514	Jun 13, 2024	Approximate Sample 452g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH20_0.0-0.2	24-Jn0032516	Jun 13, 2024	Approximate Sample 363g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH06_0.5-0.7-F1	24-Jn0032522	Jun 12, 2024	Approximate Sample 10g / 35x25x3mm Sample consisted of: Brown vinyl floor tile	Chrysotile asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH09_0.5-0.7-F	24-Jn0032523	Jun 12, 2024	Approximate Sample 18g / 55x30x4mm Sample consisted of: Grey fibre cement material	Chrysotile and amosite 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	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 14, 2024	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jun 14, 2024	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X			
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	BH02_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032479	X			X	X	X	X		
2	BH02_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032480				X	X		X		
3	BH03_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032481	X			X	X		X		
4	BH03_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032482				X	X		X		
5	BH04_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032483	X			X	X		X		
6	BH04_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032484				X	X		X		
7	BH05_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032485	X			X	X	X	X		
8	BH05_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032486				X	X		X		
9	BH06_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032487	X			X	X	X	X		
10	BH06_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032488				X	X		X		
11	BH07_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032489	X			X	X		X		
12	BH07_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032490				X	X		X		

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Lambton
NSW 2299

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Project ID: 754-NTLEN347071

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Fax: 02 4016 2380

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
13	BH08_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032491	X			X	X	X	X		
14	BH08_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032492				X	X		X		
15	BH09_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032493				X	X		X		
16	BH09_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032494	X				X	X			
17	BH09_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032495				X	X		X		
18	BH10_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032496	X			X	X		X		
19	BH10_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032497				X	X		X		
20	BH11_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032498	X			X	X		X		
21	BH11_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032499				X	X		X		
22	BH12_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032500	X			X	X		X		
23	BH12_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032501				X	X		X		
24	BH13_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032502	X			X	X		X		
25	BH13_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032503				X	X		X		
26	BH14_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032504	X			X	X		X		
27	BH14_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032505	X			X	X		X		

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NSW 2299

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Project ID: 754-NTLEN347071

Order No.:
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Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
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Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
28	BH15_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032506	X			X	X		X		
29	BH15_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032507				X	X		X		
30	BH16_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032508	X			X	X		X		
31	BH16_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032509				X	X		X		
32	BH17_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032510	X			X	X		X		
33	BH17_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032511				X	X		X		
34	BH18_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032512	X				X	X	X		
35	BH18_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032513				X	X		X		
36	BH19_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032514	X			X	X		X		
37	BH19_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032515				X	X		X		
38	BH20_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032516	X			X	X		X		
39	BH20_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032517				X	X		X		
40	QC1	Jun 12, 2024		Soil	N24-Jn0032518					X		X		
41	QC2	Jun 12, 2024		Soil	N24-Jn0032519					X		X		
42	QC3	Jun 12, 2024		Soil	N24-Jn0032520					X		X		

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Contact Name: Wendy Cadelago

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
43	QC4	Jun 12, 2024		Soil	N24-Jn0032521					X		X		
44	BH06_0.5-0.7-F1	Jun 12, 2024		Building Materials	N24-Jn0032522		X							
45	BH09_0.5-0.7-F	Jun 12, 2024		Building Materials	N24-Jn0032523		X							
46	BH02_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032524			X						
47	BH03_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032525			X						
48	BH04_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032526			X						
49	BH05_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032527			X						
50	BH06_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032528			X						
51	BH07_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032529			X						
52	BH08_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032530			X						
53	BH10_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032531			X						
54	BH11_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032532			X						
55	BH12_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032533			X						

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Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
56	BH13_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032534			X						
57	BH14_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032535			X						
58	BH15_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032536			X						
59	BH16_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032537			X						
60	BH17_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032538			X						
61	BH18_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032539			X						
62	BH19_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032540			X						
63	BH20_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032541			X						
64	BH06_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032542			X						
65	BH11_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032543			X						
66	BH13_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032544			X						
67	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032546									X
68	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032547								X	

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Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
69	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032549									X
70	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032550								X	
71	BH04_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032921			X						
72	BH19_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032922			X						
Test Counts						20	2	23	37	43	6	42	2	2

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. 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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

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* (**P_A**). This estimate is not NATA-accredited.
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, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 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.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
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

Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Unit 4, 60 Griffith Road
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Wendy Cadelago**

Report **1107687-S**
Project name CESSNOCK HOSPTIAL
Project ID 754-NTLEN347071
Received Date Jun 14, 2024

Client Sample ID			[G01]**BH02_0.0-0.2**	**BH02_0.5-0.7**	[G01]**BH03_0.0-0.2**	[G01]**BH03_1.0-1.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N24-Jn0032479**	**N24-Jn0032480**	**N24-Jn0032481**	**N24-Jn0032482**
Date Sampled			**Jun 12, 2024**	**Jun 12, 2024**	**Jun 12, 2024**	**Jun 12, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	%	96	88	127	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.3	< 0.5	1.2	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.5	0.6	1.4	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.8	1.2	1.7	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	0.8	< 0.5	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.9	< 0.5	0.9	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	< 0.5	0.6	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	0.7	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.2	< 0.5	1.0	< 0.5
Chrysene	0.5	mg/kg	1.4	< 0.5	1.0	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	4.4	0.8	3.0	< 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	0.7	< 0.5	0.6	< 0.5

Client Sample ID			[G01]BH02_0.0-0.2	BH02_0.5-0.7	[G01]BH03_0.0-0.2	[G01]BH03_1.0-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032479	N24-Jn0032480	N24-Jn0032481	N24-Jn0032482
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.5	< 0.5	1.3	< 0.5
Pyrene	0.5	mg/kg	4.4	0.8	2.9	< 0.5
Total PAH*	0.5	mg/kg	18	1.6	13	< 0.5
2-Fluorobiphenyl (surr.)	1	%	110	111	111	59
p-Terphenyl-d14 (surr.)	1	%	102	90	88	53
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.5	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	107	66	126	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	65	89	121	60
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Bolstar	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Coumaphos	2	mg/kg	< 5	< 2	< 5	< 5
Demeton-S	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Demeton-O	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Diazinon	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Dimethoate	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Disulfoton	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
EPN	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Ethion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5

Client Sample ID			[G01]BH02_0.0-0.2	BH02_0.5-0.7	[G01]BH03_0.0-0.2	[G01]BH03_1.0-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032479	N24-Jn0032480	N24-Jn0032481	N24-Jn0032482
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Fenthion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Malathion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Merphos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Mevinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Monocrotophos	2	mg/kg	< 5	< 2	< 5	< 5
Naled	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Omethoate	2	mg/kg	< 5	< 2	< 5	< 5
Phorate	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Ronnel	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Terbufos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Tokuthion	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Trichloronate	0.2	mg/kg	< 0.5	< 0.2	< 0.5	< 0.5
Triphenylphosphate (surr.)	1	%	87	86	72	[Q09]INT
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Total PCB*	0.1	mg/kg	< 1	< 0.1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	107	66	126	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	65	89	121	60
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
% Clay	2.5	%	5.6	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	28	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	6.7	-	-	-
Total Organic Carbon	0.1	%	2.3	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.7	13	8.6	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	23	16	17
Copper	5	mg/kg	17	< 5	9.8	< 5
Iron	20	mg/kg	8600	-	-	-

Client Sample ID			[G01]BH02_0.0-0.2	BH02_0.5-0.7	[G01]BH03_0.0-0.2	[G01]BH03_1.0-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032479	N24-Jn0032480	N24-Jn0032481	N24-Jn0032482
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	57	16	37	16
Mercury	0.1	mg/kg	0.1	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	11	11	13	6.5
Zinc	5	mg/kg	100	62	92	38
Heavy Metals						
Iron (%)	0.01	%	0.86	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	11	-	-	-
Sample Properties						
% Moisture	1	%	22	21	12	16

Client Sample ID			BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032483	N24-Jn0032484	N24-Jn0032485	N24-Jn0032486
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	%	124	114	93	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	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[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032483	N24-Jn0032484	N24-Jn0032485	N24-Jn0032486
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	80	79	110	79
p-Terphenyl-d14 (surr.)	1	%	76	77	92	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	67	90	79	62
Tetrachloro-m-xylene (surr.)	1	%	75	80	91	74
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032483	N24-Jn0032484	N24-Jn0032485	N24-Jn0032486
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	68	83	91	71
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	67	90	79	62
Tetrachloro-m-xylene (surr.)	1	%	75	80	91	74
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
% Clay	2.5	%	-	-	4.4	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	56	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	6.3	-
Total Organic Carbon	0.1	%	-	-	6.1	-

Client Sample ID			BH04_0.5-0.7	BH04_1.3-1.5	BH05_0.0-0.2	BH05_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032483	N24-Jn0032484	N24-Jn0032485	N24-Jn0032486
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.4	12	11	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	25	24	33
Copper	5	mg/kg	26	< 5	24	< 5
Iron	20	mg/kg	-	-	23000	-
Lead	5	mg/kg	55	11	54	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	7.2	10	11	16
Zinc	5	mg/kg	20	46	170	44
Heavy Metals						
Iron (%)	0.01	%	-	-	2.3	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	17	-
Sample Properties						
% Moisture	1	%	20	22	37	21

Client Sample ID			BH06_0.5-0.7	BH06_1.0-1.2	BH07_0.0-0.2	BH07_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032487	N24-Jn0032488	N24-Jn0032489	N24-Jn0032490
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	66	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	110	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	176	< 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	%	111	114	78	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	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

Client Sample ID			BH06_0.5-0.7	BH06_1.0-1.2	BH07_0.0-0.2	BH07_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032487	N24-Jn0032488	N24-Jn0032489	N24-Jn0032490
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 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	0.8	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	2.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	107	80	84
p-Terphenyl-d14 (surr.)	1	%	77	85	72	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	121	135	58	67
Tetrachloro-m-xylene (surr.)	1	%	79	116	74	70
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH06_0.5-0.7	BH06_1.0-1.2	BH07_0.0-0.2	BH07_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032487	N24-Jn0032488	N24-Jn0032489	N24-Jn0032490
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	84	71	66	82
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	121	135	58	67
Tetrachloro-m-xylene (surr.)	1	%	79	116	74	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	130	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	110	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	240	< 100	< 100	< 100

Client Sample ID			BH06_0.5-0.7	BH06_1.0-1.2	BH07_0.0-0.2	BH07_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032487	N24-Jn0032488	N24-Jn0032489	N24-Jn0032490
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
% Clay	2.5	%	< 2.5	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	150	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	6.9	-	-	-
Total Organic Carbon	0.1	%	25	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.0	7.9	6.3	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.8	15	9.2	8.7
Copper	5	mg/kg	20	20	46	21
Iron	20	mg/kg	14000	-	-	-
Lead	5	mg/kg	41	77	66	16
Mercury	0.1	mg/kg	< 0.1	0.1	0.8	< 0.1
Nickel	5	mg/kg	31	17	34	43
Zinc	5	mg/kg	110	98	140	34
Heavy Metals						
Iron (%)	0.01	%	1.4	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	18	-	-	-
Sample Properties						
% Moisture	1	%	20	18	15	18

Client Sample ID			BH08_0.0-0.2	BH08_1.3-1.5	[G01]BH09_0.0-0.2	BH09_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032491	N24-Jn0032492	N24-Jn0032493	N24-Jn0032494
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	61	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	61	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	94	97	104	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-

Client Sample ID			BH08_0.0-0.2	BH08_1.3-1.5	[G01]BH09_0.0-0.2	BH09_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032491	N24-Jn0032492	N24-Jn0032493	N24-Jn0032494
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	1.7	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	1.9	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	2.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.8	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.1	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	1.7	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	1.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.8	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.7	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	2.9	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.1	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.8	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	2.7	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	16	-
2-Fluorobiphenyl (surr.)	1	%	80	83	63	-
p-Terphenyl-d14 (surr.)	1	%	72	85	58	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 10	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Dibutylchlorendate (surr.)	1	%	72	73	[Q09]INT	-
Tetrachloro-m-xylene (surr.)	1	%	78	78	62	-

Client Sample ID			BH08_0.0-0.2	BH08_1.3-1.5	[G01]BH09_0.0-0.2	BH09_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032491	N24-Jn0032492	N24-Jn0032493	N24-Jn0032494
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Coumaphos	2	mg/kg	< 2	< 2	< 5	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Monocrotophos	2	mg/kg	< 2	< 2	< 5	-
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Omethoate	2	mg/kg	< 2	< 2	< 5	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	-
Triphenylphosphate (surr.)	1	%	63	73	[Q09]INT	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 1	-
Dibutylchlorendate (surr.)	1	%	72	73	[Q09]INT	-
Tetrachloro-m-xylene (surr.)	1	%	78	78	62	-

Client Sample ID			BH08_0.0-0.2	BH08_1.3-1.5	G01 BH09_0.0-0.2	BH09_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032491	N24-Jn0032492	N24-Jn0032493	N24-Jn0032494
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
% Clay	2.5	%	< 2.5	-	-	13
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	100	-	-	42
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	6.7	-	-	6.7
Total Organic Carbon	0.1	%	4.8	-	-	4.3
Heavy Metals						
Arsenic	2	mg/kg	2.4	7.0	5.1	-
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	-
Chromium	5	mg/kg	7.4	17	14	-
Copper	5	mg/kg	11	< 5	29	-
Iron	20	mg/kg	7100	-	-	8300
Lead	5	mg/kg	29	14	110	-
Mercury	0.1	mg/kg	0.2	< 0.1	0.2	-
Nickel	5	mg/kg	9.9	5.8	20	-
Zinc	5	mg/kg	64	20	130	-
Heavy Metals						
Iron (%)	0.01	%	0.71	-	-	0.83
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	11	-	-	19
Sample Properties						
% Moisture	1	%	39	20	21	17

Client Sample ID			G01 BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	G01 BH11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032495	N24-Jn0032496	N24-Jn0032497	N24-Jn0032498
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	53	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	53	< 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	%	97	106	100	106

Client Sample ID			[G01]BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	[G01]BH11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032495	N24-Jn0032496	N24-Jn0032497	N24-Jn0032498
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	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	0.6	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.9	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.1	< 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	2.0	< 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	0.7	< 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	1.8	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	10	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	57	107	79	73
p-Terphenyl-d14 (surr.)	1	%	63	109	86	70
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 10

Client Sample ID			[G01]BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	[G01]BH11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032495	N24-Jn0032496	N24-Jn0032497	N24-Jn0032498
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	109	103	63
Tetrachloro-m-xylene (surr.)	1	%	63	106	79	62
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Bolstar	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Coumaphos	2	mg/kg	< 5	< 2	< 2	< 5
Demeton-S	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Demeton-O	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Diazinon	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Dimethoate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Disulfoton	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
EPN	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Ethion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Ethoprop	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Fenthion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Malathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Merphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Mevinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Monocrotophos	2	mg/kg	< 5	< 2	< 2	< 5
Naled	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Omethoate	2	mg/kg	< 5	< 2	< 2	< 5
Phorate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Ronnel	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Terbufos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Tokuthion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Trichloronate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.5
Triphenylphosphate (surr.)	1	%	51	102	77	66
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1

Client Sample ID			[G01]BH09_1.0-1.2	BH10_0.0-0.2	BH10_0.5-0.7	[G01]BH11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032495	N24-Jn0032496	N24-Jn0032497	N24-Jn0032498
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	109	103	63
Tetrachloro-m-xylene (surr.)	1	%	63	106	79	62
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	6.3	4.8	8.1	4.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.1	11	18	10
Copper	5	mg/kg	6.7	5.8	< 5	20
Lead	5	mg/kg	32	22	11	46
Mercury	0.1	mg/kg	< 0.1	0.6	< 0.1	0.4
Nickel	5	mg/kg	9.1	17	6.6	15
Zinc	5	mg/kg	93	38	17	97
Sample Properties						
% Moisture	1	%	16	22	18	28

Client Sample ID			BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	[G01]BH13_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032499	N24-Jn0032500	N24-Jn0032501	N24-Jn0032502
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 40
TRH C15-C28	50	mg/kg	< 50	64	92	2600
TRH C29-C36	50	mg/kg	< 50	52	110	920
TRH C10-C36 (Total)	50	mg/kg	< 50	116	202	3520
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	%	98	108	139	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 100
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	[G01]BH13_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032499	N24-Jn0032500	N24-Jn0032501	N24-Jn0032502
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	92
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	92
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	92
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	4.7
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	16
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	58
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	56
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	58
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	49
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	50
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	60
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	14
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	160
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.2
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	45
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	99
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	130
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	800
2-Fluorobiphenyl (surr.)	1	%	104	81	80	71
p-Terphenyl-d14 (surr.)	1	%	109	82	74	57
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	106	92	95	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	108	80	77	55

Client Sample ID			BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	[G01]BH13_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032499	N24-Jn0032500	N24-Jn0032501	N24-Jn0032502
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 5
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 5
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Omethoate	2	mg/kg	< 2	< 2	< 2	< 5
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5
Triphenylphosphate (surr.)	1	%	107	86	88	[Q09]INT
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	106	92	95	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	108	80	77	55

Client Sample ID			BH11_1.0-1.2	BH12_0.0-0.2	BH12_0.5-0.7	[G01]BH13_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032499	N24-Jn0032500	N24-Jn0032501	N24-Jn0032502
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 100
TRH >C16-C34	100	mg/kg	< 100	< 100	130	3000
TRH >C34-C40	100	mg/kg	< 100	< 100	110	750
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	240	3750
Heavy Metals						
Arsenic	2	mg/kg	7.8	3.7	6.0	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	9.1	15	12
Copper	5	mg/kg	< 5	< 5	< 5	44
Lead	5	mg/kg	9.1	15	9.1	170
Mercury	0.1	mg/kg	< 0.1	0.3	0.2	< 0.1
Nickel	5	mg/kg	< 5	5.7	< 5	29
Zinc	5	mg/kg	18	27	14	230
Sample Properties						
% Moisture	1	%	20	18	18	9.9

Client Sample ID			[G01]BH13_1.0-1.2	[G01]BH14_0.0-0.2	BH14_0.5-0.7	[G01]BH15_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032503	N24-Jn0032504	N24-Jn0032505	N24-Jn0032506
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	78	< 20	< 20
TRH C15-C28	50	mg/kg	390	470	< 50	250
TRH C29-C36	50	mg/kg	180	670	< 50	130
TRH C10-C36 (Total)	50	mg/kg	570	1218	< 50	380
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	%	79	86	80	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	160	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	13	< 0.5	< 0.5	6.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	13	0.6	0.6	6.3
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	13	1.2	1.2	6.6
Acenaphthene	0.5	mg/kg	0.7	< 0.5	< 0.5	2.0
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			[G01]BH13_1.0-1.2	[G01]BH14_0.0-0.2	BH14_0.5-0.7	[G01]BH15_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032503	N24-Jn0032504	N24-Jn0032505	N24-Jn0032506
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	3.9	< 0.5	< 0.5	3.2
Benz(a)anthracene	0.5	mg/kg	8.4	< 0.5	< 0.5	5.0
Benzo(a)pyrene	0.5	mg/kg	7.7	< 0.5	< 0.5	4.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	7.6	< 0.5	< 0.5	4.1
Benzo(g.h.i)perylene	0.5	mg/kg	5.5	< 0.5	< 0.5	3.2
Benzo(k)fluoranthene	0.5	mg/kg	7.9	< 0.5	< 0.5	3.0
Chrysene	0.5	mg/kg	9.6	< 0.5	< 0.5	5.9
Dibenz(a.h)anthracene	0.5	mg/kg	1.9	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	27	1.2	< 0.5	17
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	5.3	< 0.5	< 0.5	2.9
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	16	1.0	< 0.5	11
Pyrene	0.5	mg/kg	22	1.1	< 0.5	14
Total PAH*	0.5	mg/kg	120	3.3	< 0.5	77
2-Fluorobiphenyl (surr.)	1	%	70	82	113	73
p-Terphenyl-d14 (surr.)	1	%	56	80	92	58
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 10	< 10	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	87	64	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	57	72	90	56

Client Sample ID			[G01]BH13_1.0-1.2	[G01]BH14_0.0-0.2	BH14_0.5-0.7	[G01]BH15_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032503	N24-Jn0032504	N24-Jn0032505	N24-Jn0032506
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Bolstar	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Coumaphos	2	mg/kg	< 5	< 5	< 2	< 5
Demeton-S	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Demeton-O	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Diazinon	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Dimethoate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Disulfoton	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
EPN	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethoprop	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fenthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Malathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Merphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Mevinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Monocrotophos	2	mg/kg	< 5	< 5	< 2	< 5
Naled	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Omethoate	2	mg/kg	< 5	< 5	< 2	< 5
Phorate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ronnel	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Terbufos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Tokuthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Trichloronate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Triphenylphosphate (surr.)	1	%	[Q09]INT	75	87	54
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	87	64	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	57	72	90	56

Client Sample ID			[G01]BH13_1.0-1.2	[G01]BH14_0.0-0.2	BH14_0.5-0.7	[G01]BH15_0.0-0.2
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N24-Jn0032503**	**N24-Jn0032504**	**N24-Jn0032505**	**N24-Jn0032506**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	160	< 50	< 50
TRH >C16-C34	100	mg/kg	480	820	< 100	320
TRH >C34-C40	100	mg/kg	170	940	< 100	110
TRH >C10-C40 (total)*	100	mg/kg	650	1920	< 100	430
Heavy Metals						
Arsenic	2	mg/kg	7.9	4.0	8.4	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	11	20	17
Copper	5	mg/kg	54	150	< 5	< 5
Lead	5	mg/kg	46	26	9.2	12
Mercury	0.1	mg/kg	< 0.1	0.3	< 0.1	< 0.1
Nickel	5	mg/kg	35	15	5.6	8.2
Zinc	5	mg/kg	140	65	20	24
Sample Properties						
% Moisture	1	%	21	16	17	15

Client Sample ID			[G01]BH15_1.0-1.2	[G01]BH16_0.0-0.2	BH16_0.5-0.7	[G01]BH17_0.0-0.2
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N24-Jn0032507**	**N24-Jn0032508**	**N24-Jn0032509**	**N24-Jn0032510**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	200	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	620	140	< 50	< 50
TRH C29-C36	50	mg/kg	110	260	< 50	85
TRH C10-C36 (Total)	50	mg/kg	930	400	< 50	85
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	%	102	INT	108	INT
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	350	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	11	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	11	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	11	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	6.6	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			[G01]BH15_1.0-1.2	[G01]BH16_0.0-0.2	BH16_0.5-0.7	[G01]BH17_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032507	N24-Jn0032508	N24-Jn0032509	N24-Jn0032510
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	8.9	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	8.1	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	7.1	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.9	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	4.1	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	6.7	0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	9.6	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	1.6	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	32	0.9	< 0.5	< 0.5
Fluorene	0.5	mg/kg	3.6	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	4.0	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	29	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	26	0.8	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	150	2.2	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	68	102	107	115
p-Terphenyl-d14 (surr.)	1	%	58	119	84	91
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 10	< 10	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	126	125	117
Tetrachloro-m-xylene (surr.)	1	%	52	68	113	120

Client Sample ID			[G01]BH15_1.0-1.2	[G01]BH16_0.0-0.2	BH16_0.5-0.7	[G01]BH17_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032507	N24-Jn0032508	N24-Jn0032509	N24-Jn0032510
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Bolstar	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Coumaphos	2	mg/kg	< 5	< 5	< 2	< 5
Demeton-S	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Demeton-O	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Diazinon	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Dimethoate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Disulfoton	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
EPN	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethoprop	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Fenthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Malathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Merphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Mevinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Monocrotophos	2	mg/kg	< 5	< 5	< 2	< 5
Naled	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Omethoate	2	mg/kg	< 5	< 5	< 2	< 5
Phorate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Ronnel	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Terbufos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Tokuthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Trichloronate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	< 0.5
Triphenylphosphate (surr.)	1	%	51	87	67	78
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 1	< 1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	126	125	117
Tetrachloro-m-xylene (surr.)	1	%	52	68	113	120

Client Sample ID			[G01]BH15_1.0-1.2	[G01]BH16_0.0-0.2	BH16_0.5-0.7	[G01]BH17_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032507	N24-Jn0032508	N24-Jn0032509	N24-Jn0032510
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	350	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	570	300	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	360	< 100	170
TRH >C10-C40 (total)*	100	mg/kg	920	660	< 100	170
Heavy Metals						
Arsenic	2	mg/kg	14	8.0	9.8	5.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	12	14	13
Copper	5	mg/kg	< 5	10	< 5	17
Lead	5	mg/kg	17	15	9.1	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.8	17	< 5	50
Zinc	5	mg/kg	23	36	9.5	42
Sample Properties						
% Moisture	1	%	15	8.3	15	6.4

Client Sample ID			[G01]BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	[G01]BH19_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032511	N24-Jn0032512	N24-Jn0032513	N24-Jn0032514
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	130	< 50	53
TRH C10-C36 (Total)	50	mg/kg	< 50	130	< 50	53
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	%	103	134	98	114
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	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

Client Sample ID			[G01]BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	[G01]BH19_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032511	N24-Jn0032512	N24-Jn0032513	N24-Jn0032514
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	123	97	111	125
p-Terphenyl-d14 (surr.)	1	%	115	75	89	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 10	-	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	120	-	142	62
Tetrachloro-m-xylene (surr.)	1	%	78	-	119	107

Client Sample ID			[G01]BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	[G01]BH19_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032511	N24-Jn0032512	N24-Jn0032513	N24-Jn0032514
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Bolstar	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Coumaphos	2	mg/kg	< 5	-	< 2	< 5
Demeton-S	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Demeton-O	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Diazinon	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Dichlorvos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Dimethoate	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Disulfoton	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
EPN	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Ethion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Ethoprop	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Fenitrothion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Fensulfothion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Fenthion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Malathion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Merphos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Methyl parathion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Mevinphos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Monocrotophos	2	mg/kg	< 5	-	< 2	< 5
Naled	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Omethoate	2	mg/kg	< 5	-	< 2	< 5
Phorate	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Pyrazophos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Ronnel	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Terbufos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Tokuthion	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Trichloronate	0.2	mg/kg	< 0.5	-	< 0.2	< 0.5
Triphenylphosphate (surr.)	1	%	91	-	73	97
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 1	-	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 1	-	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 1	-	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	120	-	142	62
Tetrachloro-m-xylene (surr.)	1	%	78	-	119	107

Client Sample ID			[G01]BH17_0.5-0.7	BH18_0.0-0.2	BH18_1.0-1.2	[G01]BH19_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032511	N24-Jn0032512	N24-Jn0032513	N24-Jn0032514
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	190	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	300	< 100	< 100
% Clay	2.5	%	-	< 2.5	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	150	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	8.8	-	-
Total Organic Carbon	0.1	%	-	0.4	-	-
Heavy Metals						
Arsenic	2	mg/kg	19	4.4	6.5	4.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	12	13	12
Copper	5	mg/kg	14	15	< 5	18
Iron	20	mg/kg	-	12000	-	-
Lead	5	mg/kg	27	< 5	7.1	7.5
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	26	56	5.8	65
Zinc	5	mg/kg	62	46	20	43
Heavy Metals						
Iron (%)	0.01	%	-	1.2	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	5.7	-	-
Sample Properties						
% Moisture	1	%	12	8.1	14	7.3

Client Sample ID			[G01]BH19_1.0-1.2	[G01]BH20_0.0-0.2	BH20_0.5-0.7	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032515	N24-Jn0032516	N24-Jn0032517	N24-Jn0032518
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	63
TRH C29-C36	50	mg/kg	< 50	58	55	76
TRH C10-C36 (Total)	50	mg/kg	< 50	58	55	139
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	%	92	105	93	101

Client Sample ID			[G01]BH19_1.0-1.2	[G01]BH20_0.0-0.2	BH20_0.5-0.7	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032515	N24-Jn0032516	N24-Jn0032517	N24-Jn0032518
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	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[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
2-Fluorobiphenyl (surr.)	1	%	119	73	82	91
p-Terphenyl-d14 (surr.)	1	%	123	63	78	93
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
a-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Aldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
b-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
d-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Toxaphene	0.5	mg/kg	< 10	< 10	< 0.5	-

Client Sample ID			G01 BH19_1.0-1.2	G01 BH20_0.0-0.2	BH20_0.5-0.7	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032515	N24-Jn0032516	N24-Jn0032517	N24-Jn0032518
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	132	55	115	-
Tetrachloro-m-xylene (surr.)	1	%	62	64	79	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Bolstar	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Coumaphos	2	mg/kg	< 5	< 5	< 2	-
Demeton-S	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Diazinon	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
EPN	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Ethion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Fenthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Malathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Merphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Monocrotophos	2	mg/kg	< 5	< 5	< 2	-
Naled	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Omethoate	2	mg/kg	< 5	< 5	< 2	-
Phorate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Ronnel	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Terbufos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.5	< 0.5	< 0.2	-
Triphenylphosphate (surr.)	1	%	100	51	76	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 1	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 1	< 1	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 1	< 1	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 1	< 1	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 1	< 1	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 1	< 1	< 0.1	-

Client Sample ID			[G01]BH19_1.0-1.2	[G01]BH20_0.0-0.2	BH20_0.5-0.7	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N24-Jn0032515	N24-Jn0032516	N24-Jn0032517	N24-Jn0032518
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	< 1	< 1	< 0.1	-
Total PCB*	0.1	mg/kg	< 1	< 1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	132	55	115	-
Tetrachloro-m-xylene (surr.)	1	%	62	64	79	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	13	5.5	8.8	7.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	12	14	13
Copper	5	mg/kg	< 5	12	< 5	21
Lead	5	mg/kg	11	< 5	7.6	55
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.3
Nickel	5	mg/kg	9.8	35	5.7	25
Zinc	5	mg/kg	52	30	23	110
Sample Properties						
% Moisture	1	%	11	7.6	16	24

Client Sample ID			QC2	QC3	QC4	Trip Spike
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			N24-Jn0032519	N24-Jn0032520	N24-Jn0032521	N24-Jn0032546
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	50	110	-
TRH C10-C36 (Total)	50	mg/kg	< 50	50	110	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	88	103	107	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-

Client Sample ID			QC2	QC3	QC4	Trip Spike
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			N24-Jn0032519	N24-Jn0032520	N24-Jn0032521	N24-Jn0032546
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	113	83	93	-
p-Terphenyl-d14 (surr.)	1	%	85	102	74	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	110	-
TRH >C34-C40	100	mg/kg	< 100	< 100	150	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	260	-
TRH C6-C10	1	%	-	-	-	87
Heavy Metals						
Arsenic	2	mg/kg	5.8	11	12	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	12	19	12	-
Copper	5	mg/kg	20	< 5	17	-
Lead	5	mg/kg	46	9.2	15	-
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	-
Nickel	5	mg/kg	18	16	32	-
Zinc	5	mg/kg	93	39	47	-
Sample Properties						
% Moisture	1	%	30	13	15	-
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	-	100
TRH C6-C9	1	%	-	-	-	87
BTEX						
Benzene	1	%	-	-	-	80
Ethylbenzene	1	%	-	-	-	85
m&p-Xylenes	1	%	-	-	-	88
o-Xylene	1	%	-	-	-	93

Client Sample ID			QC2	QC3	QC4	Trip Spike
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			N24-Jn0032519	N24-Jn0032520	N24-Jn0032521	N24-Jn0032546
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
BTEX						
Toluene	1	%	-	-	-	87
Xylenes - Total	1	%	-	-	-	91
4-Bromofluorobenzene (surr.)	1	%	-	-	-	113

Client Sample ID			Trip Blank	Trip Spike	Trip Blank
Sample Matrix			Trip Blank (solid)	Trip Spike (solid)	Trip Blank (solid)
Eurofins Sample No.			N24-Jn0032547	N24-Jn0032549	N24-Jn0032550
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	< 20
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	-	98
TRH C6-C10	1	%	-	97	-
Total Recoverable Hydrocarbons					
Naphthalene	1	%	-	100	-
TRH C6-C9	1	%	-	96	-
TRH C6-C10	20	mg/kg	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20
BTEX					
Benzene	1	%	-	87	-
Ethylbenzene	1	%	-	95	-
m&p-Xylenes	1	%	-	98	-
o-Xylene	1	%	-	100	-
Toluene	1	%	-	97	-
Xylenes - Total	1	%	-	99	-
4-Bromofluorobenzene (surr.)	1	%	-	125	-
BTEX and Naphthalene					
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5

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	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Jun 20, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Jun 20, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Jun 24, 2024	14 Days
- Method: LTM-GEN-7040 Percentage clay, silt and sand by Hydrometer			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Sydney	Jun 20, 2024	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Sydney	Jun 20, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Heavy Metals	Sydney	Jun 20, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cation Exchange Capacity	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Sydney	Jun 14, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X			
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X			
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	BH02_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032479	X			X	X	X	X		
2	BH02_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032480				X	X		X		
3	BH03_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032481	X			X	X		X		
4	BH03_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032482				X	X		X		
5	BH04_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032483	X			X	X		X		
6	BH04_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032484				X	X		X		
7	BH05_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032485	X			X	X	X	X		
8	BH05_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032486				X	X		X		
9	BH06_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032487	X			X	X	X	X		
10	BH06_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032488				X	X		X		
11	BH07_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032489	X			X	X		X		
12	BH07_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032490				X	X		X		

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
13	BH08_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032491	X			X	X	X	X		
14	BH08_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032492				X	X		X		
15	BH09_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032493				X	X		X		
16	BH09_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032494	X				X	X			
17	BH09_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032495				X	X		X		
18	BH10_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032496	X			X	X		X		
19	BH10_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032497				X	X		X		
20	BH11_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032498	X			X	X		X		
21	BH11_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032499				X	X		X		
22	BH12_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032500	X			X	X		X		
23	BH12_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032501				X	X		X		
24	BH13_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032502	X			X	X		X		
25	BH13_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032503				X	X		X		
26	BH14_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032504	X			X	X		X		
27	BH14_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032505	X			X	X		X		

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Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1107687
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 14, 2024 11:56 AM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Eurofins Suite B15	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
28	BH15_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032506	X			X	X		X		
29	BH15_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032507				X	X		X		
30	BH16_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032508	X			X	X		X		
31	BH16_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032509				X	X		X		
32	BH17_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032510	X			X	X		X		
33	BH17_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032511				X	X		X		
34	BH18_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032512	X				X	X	X		
35	BH18_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032513				X	X		X		
36	BH19_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032514	X			X	X		X		
37	BH19_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032515				X	X		X		
38	BH20_0.0-0.2	Jun 13, 2024		Soil	N24-Jn0032516	X			X	X		X		
39	BH20_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032517				X	X		X		
40	QC1	Jun 12, 2024		Soil	N24-Jn0032518					X		X		
41	QC2	Jun 12, 2024		Soil	N24-Jn0032519					X		X		
42	QC3	Jun 12, 2024		Soil	N24-Jn0032520					X		X		

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
43	QC4	Jun 12, 2024		Soil	N24-Jn0032521					X		X		
44	BH06_0.5-0.7-F1	Jun 12, 2024		Building Materials	N24-Jn0032522		X							
45	BH09_0.5-0.7-F	Jun 12, 2024		Building Materials	N24-Jn0032523		X							
46	BH02_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032524			X						
47	BH03_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032525			X						
48	BH04_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032526			X						
49	BH05_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032527			X						
50	BH06_0.0-0.2	Jun 12, 2024		Soil	N24-Jn0032528			X						
51	BH07_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032529			X						
52	BH08_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032530			X						
53	BH10_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032531			X						
54	BH11_0.5-0.7	Jun 12, 2024		Soil	N24-Jn0032532			X						
55	BH12_1.0-1.2	Jun 12, 2024		Soil	N24-Jn0032533			X						

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Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
56	BH13_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032534			X						
57	BH14_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032535			X						
58	BH15_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032536			X						
59	BH16_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032537			X						
60	BH17_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032538			X						
61	BH18_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032539			X						
62	BH19_0.5-0.7	Jun 13, 2024		Soil	N24-Jn0032540			X						
63	BH20_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032541			X						
64	BH06_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032542			X						
65	BH11_1.3-1.5	Jun 12, 2024		Soil	N24-Jn0032543			X						
66	BH13_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032544			X						
67	Trip Spike Lab	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032545								X	
68	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032546									X

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Melbourne Laboratory - NATA # 1261 Site # 1254											X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X			
69	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032547								X	
70	Trip Spike Lab	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032548									X
71	Trip Spike	Jun 12, 2024		Trip Spike (solid)	N24-Jn0032549									X
72	Trip Blank	Jun 12, 2024		Trip Blank (solid)	N24-Jn0032550								X	
73	BH04_1.0-1.2	Jun 13, 2024		Soil	N24-Jn0032921			X						
74	BH19_1.3-1.5	Jun 13, 2024		Soil	N24-Jn0032922			X						
Test Counts						20	2	23	37	43	6	42	3	3

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*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 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

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

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

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

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 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							
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							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	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							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.5			0.5	Pass	
Method Blank							
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							
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							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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							
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	76			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	97			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	106			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	101			80-120	Pass	
Iron	%	103			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	102			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	102			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	97			70-130	Pass	
m&p-Xylenes	%	109			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total*	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	111			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
LCS - % Recovery							
Total Organic Carbon	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	94			80-120	Pass	
Iron	%	96			80-120	Pass	
Lead	%	92			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	%	92			80-120	Pass	
Nickel	%	93			80-120	Pass	
Zinc	%	92			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	93			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	94			70-130	Pass	
Benzo(b&j)fluoranthene	%	99			70-130	Pass	
Benzo(g.h.i)perylene	%	98			70-130	Pass	
Benzo(k)fluoranthene	%	93			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	73			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	93			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	97			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	91			70-130	Pass	
4.4'-DDD	%	90			70-130	Pass	
4.4'-DDE	%	97			70-130	Pass	
4.4'-DDT	%	92			70-130	Pass	
a-HCH	%	93			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-HCH	%	86			70-130	Pass	
d-HCH	%	85			70-130	Pass	
Dieldrin	%	87			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	89			70-130	Pass	
Endosulfan sulphate	%	92			70-130	Pass	
Endrin	%	95			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	94			70-130	Pass	
g-HCH (Lindane)	%	95			70-130	Pass	
Heptachlor	%	88			70-130	Pass	
Heptachlor epoxide	%	91			70-130	Pass	
Hexachlorobenzene	%	95			70-130	Pass	
Methoxychlor	%	80			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	104			70-130	Pass	
Dimethoate	%	88			70-130	Pass	
Ethion	%	116			70-130	Pass	
Fenitrothion	%	88			70-130	Pass	
Methyl parathion	%	85			70-130	Pass	
Mevinphos	%	103			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	79			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	%	89			70-130	Pass	
LCS - % Recovery							
% Clay	%	97			70-130	Pass	
Total Organic Carbon	%	102			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	98			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	91			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	79			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	88			70-130	Pass	
Acenaphthylene	%	86			70-130	Pass	
Anthracene	%	94			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	90			70-130	Pass	
Benzo(k)fluoranthene	%	96			70-130	Pass	
Chrysene	%	85			70-130	Pass	
Dibenz(a.h)anthracene	%	88			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	94			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	87			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	86			70-130	Pass	
4.4'-DDD	%	84			70-130	Pass	
4.4'-DDE	%	91			70-130	Pass	
4.4'-DDT	%	92			70-130	Pass	
a-HCH	%	84			70-130	Pass	
Aldrin	%	87			70-130	Pass	
b-HCH	%	89			70-130	Pass	
d-HCH	%	87			70-130	Pass	
Dieldrin	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	%	87			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	95			70-130	Pass	
Endrin aldehyde	%	103			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-HCH (Lindane)	%	94			70-130	Pass	
Heptachlor	%	85			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	88			70-130	Pass	
Methoxychlor	%	79			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	101			70-130	Pass	
Dimethoate	%	73			70-130	Pass	
Ethion	%	94			70-130	Pass	
Fenitrothion	%	76			70-130	Pass	
Methyl parathion	%	79			70-130	Pass	
Mevinphos	%	90			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	73			70-130	Pass	
Aroclor-1260	%	77			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	94			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	108			70-130	Pass	
m&p-Xylenes	%	111			70-130	Pass	
o-Xylene	%	109			70-130	Pass	
Xylenes - Total*	%	111			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	109			70-130	Pass	
TRH C6-C10	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	84			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benz(a)anthracene	S24-Jn0051115	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Methoxychlor	S24-Jn0035860	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S24-Jn0056777	NCP	%	73			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mevinphos	S24-Jn0056777	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Dimethoate	N24-Jn0037518	NCP	%	86			70-130	Pass	
Ethion	N24-Jn0037518	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N24-Jn0032482	CP	%	91			75-125	Pass	
Cadmium	N24-Jn0032482	CP	%	94			75-125	Pass	
Chromium	N24-Jn0032482	CP	%	95			75-125	Pass	
Copper	N24-Jn0032482	CP	%	85			75-125	Pass	
Lead	N24-Jn0032482	CP	%	85			75-125	Pass	
Mercury	N24-Jn0032482	CP	%	89			75-125	Pass	
Nickel	N24-Jn0032482	CP	%	85			75-125	Pass	
Zinc	N24-Jn0032482	CP	%	77			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	N24-Jn0032486	CP	%	89			70-130	Pass	
4.4'-DDD	N24-Jn0032486	CP	%	81			70-130	Pass	
4.4'-DDE	N24-Jn0032486	CP	%	91			70-130	Pass	
4.4'-DDT	N24-Jn0032486	CP	%	77			70-130	Pass	
a-HCH	N24-Jn0032486	CP	%	90			70-130	Pass	
Aldrin	N24-Jn0032486	CP	%	85			70-130	Pass	
b-HCH	N24-Jn0032486	CP	%	79			70-130	Pass	
d-HCH	N24-Jn0032486	CP	%	78			70-130	Pass	
Dieldrin	N24-Jn0032486	CP	%	84			70-130	Pass	
Endosulfan I	N24-Jn0032486	CP	%	87			70-130	Pass	
Endosulfan II	N24-Jn0032486	CP	%	83			70-130	Pass	
Endosulfan sulphate	N24-Jn0032486	CP	%	83			70-130	Pass	
Endrin	N24-Jn0032486	CP	%	84			70-130	Pass	
Endrin aldehyde	N24-Jn0032486	CP	%	98			70-130	Pass	
Endrin ketone	N24-Jn0032486	CP	%	88			70-130	Pass	
g-HCH (Lindane)	N24-Jn0032486	CP	%	90			70-130	Pass	
Heptachlor	N24-Jn0032486	CP	%	82			70-130	Pass	
Heptachlor epoxide	N24-Jn0032486	CP	%	84			70-130	Pass	
Hexachlorobenzene	N24-Jn0032486	CP	%	94			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Fenitrothion	S24-Jn0041916	NCP	%	83			70-130	Pass	
Methyl parathion	S24-Jn0041916	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	N24-Jn0032486	CP	%	72			70-130	Pass	
Aroclor-1260	N24-Jn0032486	CP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N24-Jn0032512	CP	%	91			75-125	Pass	
Cadmium	N24-Jn0032512	CP	%	101			75-125	Pass	
Chromium	N24-Jn0032512	CP	%	103			75-125	Pass	
Copper	N24-Jn0032512	CP	%	103			75-125	Pass	
Lead	N24-Jn0032512	CP	%	103			75-125	Pass	
Mercury	N24-Jn0032512	CP	%	112			75-125	Pass	
Nickel	N24-Jn0032512	CP	%	98			75-125	Pass	
Zinc	N24-Jn0032512	CP	%	98			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N24-Jn0032513	CP	%	87			70-130	Pass	
Acenaphthylene	N24-Jn0032513	CP	%	91			70-130	Pass	
Anthracene	N24-Jn0032513	CP	%	90			70-130	Pass	
Benzo(a)pyrene	N24-Jn0032513	CP	%	72			70-130	Pass	
Benzo(k)fluoranthene	N24-Jn0032513	CP	%	96			70-130	Pass	
Chrysene	N24-Jn0032513	CP	%	81			70-130	Pass	
Dibenz(a.h)anthracene	N24-Jn0032513	CP	%	72			70-130	Pass	
Fluoranthene	N24-Jn0032513	CP	%	86			70-130	Pass	
Fluorene	N24-Jn0032513	CP	%	75			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0032513	CP	%	74			70-130	Pass	
Naphthalene	N24-Jn0032513	CP	%	88			70-130	Pass	
Phenanthrene	N24-Jn0032513	CP	%	93			70-130	Pass	
Pyrene	N24-Jn0032513	CP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	N24-Jn0032517	CP	%	92			70-130	Pass	
TRH C10-C14	N24-Jn0032517	CP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N24-Jn0032517	CP	%	87			70-130	Pass	
Toluene	N24-Jn0032517	CP	%	95			70-130	Pass	
Ethylbenzene	N24-Jn0032517	CP	%	99			70-130	Pass	
m&p-Xylenes	N24-Jn0032517	CP	%	109			70-130	Pass	
o-Xylene	N24-Jn0032517	CP	%	97			70-130	Pass	
Xylenes - Total*	N24-Jn0032517	CP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	N24-Jn0032517	CP	%	94			70-130	Pass	
TRH C6-C10	N24-Jn0032517	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	N24-Jn0032517	CP	%	86			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Jn0032479	CP	mg/kg	0.8	1.0	23	30%	Pass	
Benzo(a)pyrene	N24-Jn0032479	CP	mg/kg	0.9	1.1	17	30%	Pass	
Benzo(b&j)fluoranthene	N24-Jn0032479	CP	mg/kg	0.7	1.1	37	30%	Fail	Q15
Benzo(g.h.i)perylene	N24-Jn0032479	CP	mg/kg	0.7	0.8	4.6	30%	Pass	
Benzo(k)fluoranthene	N24-Jn0032479	CP	mg/kg	1.2	1.4	15	30%	Pass	
Chrysene	N24-Jn0032479	CP	mg/kg	1.4	1.7	19	30%	Pass	
Dibenz(a.h)anthracene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Jn0032479	CP	mg/kg	4.4	5.8	27	30%	Pass	
Fluorene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0032479	CP	mg/kg	0.7	0.5	23	30%	Pass	
Naphthalene	N24-Jn0032479	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Jn0032479	CP	mg/kg	2.5	3.5	33	30%	Fail	Q15
Pyrene	N24-Jn0032479	CP	mg/kg	4.4	5.7	25	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S24-Jn0036707	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	N24-Jn0032479	CP	uS/cm	28	29	4.7	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0032480	CP	%	21	21	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Jn0032481	CP	mg/kg	0.6	< 0.5	100	30%	Fail	Q15
Benzo(a)pyrene	N24-Jn0032481	CP	mg/kg	0.9	< 0.5	130	30%	Fail	Q15
Benzo(b&j)fluoranthene	N24-Jn0032481	CP	mg/kg	0.6	< 0.5	110	30%	Fail	Q15
Benzo(g.h.i)perylene	N24-Jn0032481	CP	mg/kg	0.7	< 0.5	110	30%	Fail	Q15
Benzo(k)fluoranthene	N24-Jn0032481	CP	mg/kg	1.0	< 0.5	80	30%	Fail	Q15
Chrysene	N24-Jn0032481	CP	mg/kg	1.0	< 0.5	98	30%	Fail	Q15
Dibenz(a.h)anthracene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Jn0032481	CP	mg/kg	3.0	0.9	110	30%	Fail	Q15
Fluorene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0032481	CP	mg/kg	0.6	< 0.5	180	30%	Fail	Q15
Naphthalene	N24-Jn0032481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Jn0032481	CP	mg/kg	1.3	< 0.5	100	30%	Fail	Q15
Pyrene	N24-Jn0032481	CP	mg/kg	2.9	0.8	110	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032481	CP	mg/kg	8.6	14	46	30%	Fail	Q15
Cadmium	N24-Jn0032481	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N24-Jn0032481	CP	mg/kg	16	22	34	30%	Fail	Q15
Copper	N24-Jn0032481	CP	mg/kg	9.8	7.3	28	30%	Pass	
Lead	N24-Jn0032481	CP	mg/kg	37	32	13	30%	Pass	
Mercury	N24-Jn0032481	CP	mg/kg	0.2	0.1	28	30%	Pass	
Nickel	N24-Jn0032481	CP	mg/kg	13	16	21	30%	Pass	
Zinc	N24-Jn0032481	CP	mg/kg	92	110	15	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	N24-Jn0032485	CP	meq/100g	17	16	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	N24-Jn0032487	CP	%	25	14	61	30%	Fail	Q15
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0032490	CP	%	18	22	19	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	N24-Jn0032491	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N24-Jn0032491	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	N24-Jn0032491	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N24-Jn0032491	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N24-Jn0032491	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	N24-Jn0032491	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethoprop	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	N24-Jn0032491	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	N24-Jn0032491	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	N24-Jn0032491	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	N24-Jn0032491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	N24-Jn0032491	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N24-Jn0032491	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	N24-Jn0032491	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032491	CP	mg/kg	2.4	2.1	12	30%	Pass	
Cadmium	N24-Jn0032491	CP	mg/kg	0.5	0.5	2.1	30%	Pass	
Chromium	N24-Jn0032491	CP	mg/kg	7.4	6.3	15	30%	Pass	
Copper	N24-Jn0032491	CP	mg/kg	11	11	3.2	30%	Pass	
Iron	N24-Jn0032491	CP	mg/kg	7100	6000	16	30%	Pass	
Lead	N24-Jn0032491	CP	mg/kg	29	28	2.9	30%	Pass	
Mercury	N24-Jn0032491	CP	mg/kg	0.2	0.2	2.2	30%	Pass	
Nickel	N24-Jn0032491	CP	mg/kg	9.9	9.9	<1	30%	Pass	
Zinc	N24-Jn0032491	CP	mg/kg	64	63	1.1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron (%)	N24-Jn0032491	CP	%	0.71	0.60	16	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N24-Jn0032496	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N24-Jn0032496	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N24-Jn0032496	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N24-Jn0032496	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N24-Jn0032496	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N24-Jn0032496	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N24-Jn0032496	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N24-Jn0032496	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N24-Jn0032496	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0032500	CP	%	18	17	3.4	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032501	CP	mg/kg	6.0	6.3	5.3	30%	Pass	
Cadmium	N24-Jn0032501	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N24-Jn0032501	CP	mg/kg	15	14	9.3	30%	Pass	
Copper	N24-Jn0032501	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Iron	N24-Jn0032501	CP	mg/kg	15000	18000	18	30%	Pass	
Lead	N24-Jn0032501	CP	mg/kg	9.1	13	36	30%	Fail	Q15
Mercury	N24-Jn0032501	CP	mg/kg	0.2	0.2	17	30%	Pass	
Nickel	N24-Jn0032501	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N24-Jn0032501	CP	mg/kg	14	17	21	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N24-Jn0032506	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N24-Jn0032506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N24-Jn0032506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N24-Jn0032506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N24-Jn0032506	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N24-Jn0032506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N24-Jn0032506	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N24-Jn0032506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N24-Jn0032506	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0032510	CP	%	6.4	7.2	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032511	CP	mg/kg	19	17	10	30%	Pass	
Cadmium	N24-Jn0032511	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N24-Jn0032511	CP	mg/kg	14	18	24	30%	Pass	
Copper	N24-Jn0032511	CP	mg/kg	14	9.3	42	30%	Fail	Q15
Lead	N24-Jn0032511	CP	mg/kg	27	20	27	30%	Pass	
Mercury	N24-Jn0032511	CP	mg/kg	0.1	< 0.1	9.2	30%	Pass	
Nickel	N24-Jn0032511	CP	mg/kg	26	25	3.9	30%	Pass	
Zinc	N24-Jn0032511	CP	mg/kg	62	61	2.6	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N24-Jn0032516	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N24-Jn0032516	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N24-Jn0032516	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	N24-Jn0032516	CP	mg/kg	58	57	2.2	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N24-Jn0032516	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N24-Jn0032516	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N24-Jn0032516	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N24-Jn0032516	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N24-Jn0032516	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N24-Jn0032516	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N24-Jn0032516	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N24-Jn0032516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	N24-Jn0032516	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N24-Jn0032516	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	N24-Jn0032516	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0032520	CP	%	13	14	11	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032521	CP	mg/kg	12	17	34	30%	Fail	Q15
Cadmium	N24-Jn0032521	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N24-Jn0032521	CP	mg/kg	12	19	47	30%	Fail	Q15
Copper	N24-Jn0032521	CP	mg/kg	17	15	13	30%	Pass	
Lead	N24-Jn0032521	CP	mg/kg	15	15	<1	30%	Pass	
Mercury	N24-Jn0032521	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N24-Jn0032521	CP	mg/kg	32	38	17	30%	Pass	
Zinc	N24-Jn0032521	CP	mg/kg	47	56	17	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Nileshni Goundar	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Inorganic
Maria Tian	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Sample Properties
Roopesh Rangarajan	Senior Analyst-Volatile
Ryan Phillips	Senior Analyst-Inorganic
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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TETRA TECH COFFEY

Consigning Office:	Newcastle				
Report Results to:		Mobile:	+61421256834 +61428418368	Email:	Wnedy.Cadelago@tetratech.com Peter.sanderson@tetratech.com
Invoices to:	Nadine Caldwell	Phone:	+61 428 861 328	Email:	nadine.caldwell@tetratech.com

Project No:	754-NTLEN347071	Task No:	
Project Name:	Cessnock Hospital	Laboratory:	Eurofins
Sampler's Name:	Peter Sanderson	Project Manager:	Wendy Cadelago
Quote Number:		QUOTE#181018COF	
Special Instructions:			

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	B7	OCP/OPP/PCB	NEPM Suite	B1 - TRH, BTEX	Hold	Asbestos NEPM	NOTES
	BH01_0.0-0.2	14/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH01_0.5-0.7	14/06/2024		Soil	Jar, Z	Std	X	X				X	
	BH01_1.0-1.2	14/06/2024		Soil	Jar	Std					X		

RELINQUISHED BY

Name:	Peter Sanderson	Date:	14/06/2024
Tetra Tech Coffey		Time:	
Name:		Date:	
Company:		Time:	

x

Name:	Skandar	Date:	14/6
Company:		Time:	4:20
Name:		Date:	
Company:		Time:	

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☐

All Documentation is in Proper Order ☐

Samples Received Properly Chilled ☐

Lab. Ref/Batch No. 1108144

***Container Type & Preservation Codes:** P - Plastic, G- Glass Bottle, J - Glass Jar, V- Vial, Z - Ziplock bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - ice, ST - Sodium Thiosulfate, NP - No Preservative

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Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: Tetra Tech Coffey P/L N castle
Contact name: Wendy Cadelago
Project name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071
Turnaround time: 5 Day
Date/Time received Jun 17, 2024 4:20 PM
Eurofins reference 1108144

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 14.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

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

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

Results will be delivered electronically via email to Wendy Cadelago - wendy.cadelago@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey P/L N castle email address.

Eurofins Environment Testing Australia Pty Ltd
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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1108144
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 17, 2024 4:20 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Eurofins Suite B15	Moisture Set	Eurofins Suite B7
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0.0-0.2	Jun 14, 2024		Soil	N24-Jn0037211	X		X	X	X
2	BH01_0.5-0.7	Jun 14, 2024		Soil	N24-Jn0037212	X		X	X	X
3	BH01_1.0-1.2	Jun 14, 2024		Soil	N24-Jn0037213		X			
Test Counts						2	1	2	2	2

Certificate of Analysis

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Tetra Tech Coffey Pty Ltd Newcastle
Unit 4, 60 Griffith Road
Lambton
NSW 2299

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:	Wendy Cadelago
Report	1108144-AID
Project Name	CESSNOCK HOSPTIAL
Project ID	754-NTLEN347071
Received Date	Jun 17, 2024
Date Reported	Jun 27, 2024

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.*

Project Name CESSNOCK HOSPTIAL
Project ID 754-NTLEN347071
Date Sampled Jun 14, 2024
Report 1108144-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH01_0.0-0.2	24-Jn0037211	Jun 14, 2024	Approximate Sample 354g Sample consisted of: Grey fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH01_0.5-0.7	24-Jn0037212	Jun 14, 2024	Approximate Sample 397g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% 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	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 17, 2024	Indefinite

eurofins

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: Tetra Tech Coffey P/L N castle
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Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1108144
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 17, 2024 4:20 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Eurofins Suite B15	Moisture Set	Eurofins Suite B7
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0.0-0.2	Jun 14, 2024		Soil	N24-Jn0037211	X		X	X	X
2	BH01_0.5-0.7	Jun 14, 2024		Soil	N24-Jn0037212	X		X	X	X
3	BH01_1.0-1.2	Jun 14, 2024		Soil	N24-Jn0037213		X			
Test Counts						2	1	2	2	2

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. 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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

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* (**P_A**). This estimate is not NATA-accredited.
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, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 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.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
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

Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Tetra Tech Coffey Pty Ltd Newcastle
Unit 4, 60 Griffith Road
Lambton
NSW 2299

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: **Wendy Cadelago**

Report **1108144-S**
Project name CESSNOCK HOSPTIAL
Project ID 754-NTLEN347071
Received Date Jun 17, 2024

Client Sample ID			**BH01_0.0-0.2**	**BH01_0.5-0.7**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**N24-Jn0037211**	**N24-Jn0037212**
Date Sampled			**Jun 14, 2024**	**Jun 14, 2024**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	117
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			BH01_0.0-0.2	BH01_0.5-0.7
Sample Matrix			Soil	Soil
Eurofins Sample No.			N24-Jn0037211	N24-Jn0037212
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	73	68
p-Terphenyl-d14 (surr.)	1	%	70	67
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	76	82
Tetrachloro-m-xylene (surr.)	1	%	70	70
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2

Client Sample ID			BH01_0.0-0.2	BH01_0.5-0.7
Sample Matrix			Soil	Soil
Eurofins Sample No.			N24-Jn0037211	N24-Jn0037212
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Organophosphorus Pesticides				
Ethoprop	0.2	mg/kg	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	68	68
Polychlorinated Biphenyls				
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	76	82
Tetrachloro-m-xylene (surr.)	1	%	70	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100
Heavy Metals				
Arsenic	2	mg/kg	6.0	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	10	28
Copper	5	mg/kg	27	< 5
Lead	5	mg/kg	80	13
Mercury	0.1	mg/kg	0.1	< 0.1
Nickel	5	mg/kg	18	12
Zinc	5	mg/kg	110	33
Sample Properties				
% Moisture	1	%	18	17

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	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Jun 20, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Jun 24, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jun 20, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Jun 20, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jun 17, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1108144
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jun 17, 2024 4:20 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Eurofins Suite B15	Moisture Set	Eurofins Suite B7
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0.0-0.2	Jun 14, 2024		Soil	N24-Jn0037211	X		X	X	X
2	BH01_0.5-0.7	Jun 14, 2024		Soil	N24-Jn0037212	X		X	X	X
3	BH01_1.0-1.2	Jun 14, 2024		Soil	N24-Jn0037213		X			
Test Counts						2	1	2	2	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*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 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

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

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

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

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	96			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	100			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total*	%	100			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	91			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	84			70-130	Pass	
Anthracene	%	85			70-130	Pass	
Benz(a)anthracene	%	80			70-130	Pass	
Benzo(a)pyrene	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	84			70-130	Pass	
Chrysene	%	84			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	87			70-130	Pass	
Fluorene	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	85			70-130	Pass	
Naphthalene	%	83			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	87			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	85			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	96			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-HCH	%	85			70-130	Pass	
Aldrin	%	88			70-130	Pass	
b-HCH	%	87			70-130	Pass	
d-HCH	%	88			70-130	Pass	
Dieldrin	%	87			70-130	Pass	
Endosulfan I	%	81			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	88			70-130	Pass	
Endrin	%	93			70-130	Pass	
Endrin aldehyde	%	87			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-HCH (Lindane)	%	87			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	84			70-130	Pass	
Hexachlorobenzene	%	88			70-130	Pass	
Methoxychlor	%	98			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	83			70-130	Pass	
Dimethoate	%	75			70-130	Pass	
Ethion	%	83			70-130	Pass	
Fenitrothion	%	85			70-130	Pass	
Methyl parathion	%	84			70-130	Pass	
Mevinphos	%	75			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	80			70-130	Pass	
Aroclor-1260	%	80			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	119			80-120	Pass	
Cadmium	%	106			80-120	Pass	
Chromium	%	120			80-120	Pass	
Copper	%	116			80-120	Pass	
Lead	%	112			80-120	Pass	
Mercury	%	113			80-120	Pass	
Nickel	%	115			80-120	Pass	
Zinc	%	116			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S24-Jn0043282	NCP	%	101			70-130	Pass	
TRH C10-C14	N24-Jn0032517	NCP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S24-Jn0043282	NCP	%	98			70-130	Pass	
Toluene	S24-Jn0043282	NCP	%	94			70-130	Pass	
Ethylbenzene	S24-Jn0043282	NCP	%	96			70-130	Pass	
m&p-Xylenes	S24-Jn0043282	NCP	%	95			70-130	Pass	
o-Xylene	S24-Jn0043282	NCP	%	94			70-130	Pass	
Xylenes - Total*	S24-Jn0043282	NCP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S24-Jn0043282	NCP	%	98			70-130	Pass	
TRH C6-C10	S24-Jn0043282	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S24-Jn0056019	NCP	%	78			70-130	Pass	
Acenaphthylene	S24-Jn0056019	NCP	%	72			70-130	Pass	
Anthracene	S24-Jn0056019	NCP	%	80			70-130	Pass	
Benz(a)anthracene	S24-Jn0056019	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	S24-Jn0056019	NCP	%	73			70-130	Pass	
Benzo(g.h.i)perylene	S24-Jn0056019	NCP	%	82			70-130	Pass	
Benzo(k)fluoranthene	S24-Jn0056019	NCP	%	74			70-130	Pass	
Chrysene	S24-Jn0056019	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	S24-Jn0056019	NCP	%	83			70-130	Pass	
Fluoranthene	S24-Jn0056019	NCP	%	79			70-130	Pass	
Fluorene	S24-Jn0056019	NCP	%	81			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S24-Jn0056019	NCP	%	81			70-130	Pass	
Naphthalene	S24-Jn0056019	NCP	%	78			70-130	Pass	
Pyrene	S24-Jn0056019	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S24-Jn0057094	NCP	%	84			70-130	Pass	
4.4'-DDD	S24-Jn0057094	NCP	%	75			70-130	Pass	
4.4'-DDE	S24-Jn0057094	NCP	%	79			70-130	Pass	
4.4'-DDT	S24-Jn0055802	NCP	%	70			70-130	Pass	
a-HCH	S24-Jn0057094	NCP	%	80			70-130	Pass	
Aldrin	S24-Jn0057094	NCP	%	84			70-130	Pass	
b-HCH	S24-Jn0057094	NCP	%	75			70-130	Pass	
d-HCH	S24-Jn0057094	NCP	%	81			70-130	Pass	
Dieldrin	S24-Jn0057094	NCP	%	79			70-130	Pass	
Endosulfan I	S24-Jn0057094	NCP	%	80			70-130	Pass	
Endosulfan II	S24-Jn0057094	NCP	%	74			70-130	Pass	
Endosulfan sulphate	S24-Jn0057094	NCP	%	81			70-130	Pass	
Endrin	S24-Jn0057094	NCP	%	78			70-130	Pass	
Endrin aldehyde	S24-Jn0057094	NCP	%	80			70-130	Pass	
Endrin ketone	S24-Jn0057094	NCP	%	88			70-130	Pass	
g-HCH (Lindane)	S24-Jn0057094	NCP	%	83			70-130	Pass	
Heptachlor	S24-Jn0057094	NCP	%	73			70-130	Pass	
Heptachlor epoxide	S24-Jn0057094	NCP	%	82			70-130	Pass	
Hexachlorobenzene	S24-Jn0057094	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	N24-Jn0032517	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-Jn0044019	NCP	%	105			75-125	Pass	
Cadmium	S24-Jn0044019	NCP	%	106			75-125	Pass	
Chromium	S24-Jn0044019	NCP	%	105			75-125	Pass	
Copper	N24-Jn0037005	NCP	%	79			75-125	Pass	
Lead	N24-Jn0037005	NCP	%	87			75-125	Pass	
Mercury	S24-Jn0044019	NCP	%	99			75-125	Pass	
Nickel	S24-Jn0044019	NCP	%	101			75-125	Pass	
Zinc	N24-Jn0037005	NCP	%	84			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	N24-Jn0037212	CP	%	94			70-130	Pass	
Ethion	N24-Jn0037212	CP	%	92			70-130	Pass	
Fenitrothion	N24-Jn0037212	CP	%	84			70-130	Pass	
Methyl parathion	N24-Jn0037212	CP	%	76			70-130	Pass	
Mevinphos	N24-Jn0037212	CP	%	81			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N24-Jn0037135	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N24-Jn0036957	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N24-Jn0036957	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	N24-Jn0036957	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N24-Jn0037135	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N24-Jn0037135	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N24-Jn0037135	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N24-Jn0037135	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N24-Jn0037135	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N24-Jn0037135	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N24-Jn0037135	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N24-Jn0037135	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Dieldrin	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N24-Jn0033420	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	N24-Jn0033420	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	N24-Jn0033420	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	N24-Jn0036957	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N24-Jn0036957	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	N24-Jn0036957	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-Jn0032481	NCP	mg/kg	8.6	14	46	30%	Fail	Q15
Cadmium	N24-Jn0032481	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N24-Jn0032481	NCP	mg/kg	16	22	34	30%	Fail	Q15
Copper	N24-Jn0032481	NCP	mg/kg	9.8	7.3	28	30%	Pass	
Lead	N24-Jn0032481	NCP	mg/kg	37	32	13	30%	Pass	
Mercury	N24-Jn0032481	NCP	mg/kg	0.2	0.1	28	30%	Pass	
Nickel	N24-Jn0032481	NCP	mg/kg	13	16	21	30%	Pass	
Zinc	N24-Jn0032481	NCP	mg/kg	92	110	15	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Jn0037232	NCP	%	6.4	6.7	4.7	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
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
Fang Yee Tan	Senior Analyst-Metal
Laxman Dias	Senior Analyst-Asbestos
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Sample Properties
Roopesh Rangarajan	Senior Analyst-Volatile



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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1107687 - TCLP request

Cadelago, Wendy <WENDY.CADELAGO@tetratech.com>

Wed 2024-07-03 10:36 AM

To:Andrew Black <AndrewBlack@eurofins.com>

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Andrew,

Can you please arrange for the following TCLP analyses on the fastest turnaround:

- Nickel BH19_0.0-0.2
- Lead and Benzo(a)pyrene BH13_0.0-0.2
- Benzo(a)pyrene BH13_1.0-1.2

Regards,

Wendy Cadelago| Senior Environmental Engineer

Tetra Tech Coffey | *Leading with Science*®
Unit 4/60 Griffiths Road | Lambton NSW 2299 | tetratech.com | tetratechcoffey.com

M	T	W	Th	F
✓	✓	✓	✓	x





I acknowledge the Awabakal peoples on whose country I live and work. I pay my respects to their Elders past, present, emerging and future. Tetra Tech Coffey recognises Aboriginal and Torres Strait Islanders as the first peoples of Australia, and we respect their cultural heritage, traditional knowledge and customs associated with their ancestral lands and waters. Through this acknowledgement we commit to ongoing learning and understanding on our journey to reconciliation.

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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: Tetra Tech Coffey P/L N castle
Contact name: Wendy Cadelago
Project name: ADDITIONAL: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071
Turnaround time: 1 Day
Date/Time received Jul 3, 2024 10:39 AM
Eurofins reference 1114316

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 16.7 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

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

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

Results will be delivered electronically via email to Wendy Cadelago - wendy.cadelago@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey P/L N castle email address.

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

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Tetra Tech Coffey P/L N castle
Address: Unit 4, 60 Griffith Road
Lambton
NSW 2299

Project Name: ADDITIONAL: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1114316
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jul 3, 2024 10:39 AM
Due: Jul 4, 2024
Priority: 1 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Benzo(a)pyrene	Lead	Nickel	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	BH19_0.0-0.2	Jun 12, 2024		US Leachate	S24-Jl0009503			X	X
2	BH13_0.0-0.2	Jun 12, 2024		US Leachate	S24-Jl0009504	X	X		X
3	BH13_1.0-1.2	Jun 12, 2024		US Leachate	S24-Jl0009505	X			X
Test Counts						2	1	1	3

Tetra Tech Coffey Pty Ltd Newcastle
Unit 4, 60 Griffith Road
Lambton
NSW 2299

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: **Wendy Cadelago**

Report **1114316-L**
Project name ADDITIONAL: CESSNOCK HOSPTIAL
Project ID 754-NTLEN347071
Received Date Jul 03, 2024

Client Sample ID			**BH19_0.0-0.2**	**BH13_0.0-0.2**	**BH13_1.0-1.2**
Sample Matrix			**US Leachate**	**US Leachate**	**US Leachate**
Eurofins Sample No.			**S24-JI0009503**	**S24-JI0009504**	**S24-JI0009505**
Date Sampled			**Jun 12, 2024**	**Jun 12, 2024**	**Jun 12, 2024**
Test/Reference	LOR	Unit			
Heavy Metals					
Lead	0.01	mg/L	-	0.02	-
Nickel	0.01	mg/L	0.07	-	-
USA Leaching Procedure					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	8.2	7.3	7.4
pH (off)	0.1	pH Units	5.2	5.2	5.2
pH (USA HCl addition)	0.1	pH Units	1.8	1.8	1.7
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.001	mg/L	-	0.003	0.002

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
Heavy Metals	Sydney	Jul 03, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Jul 03, 2024	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Polycyclic Aromatic Hydrocarbons	Sydney	Jul 03, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Lambton
NSW 2299

Project Name: ADDITIONAL: CESSNOCK HOSPTIAL
Project ID: 754-NTLEN347071

Order No.:
Report #: 1114316
Phone: 02 4016 2300
Fax: 02 4016 2380

Received: Jul 3, 2024 10:39 AM
Due: Jul 4, 2024
Priority: 1 Day
Contact Name: Wendy Cadelago

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Benzo(a)pyrene	Lead	Nickel	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	BH19_0.0-0.2	Jun 12, 2024		US Leachate	S24-Jl0009503			X	X
2	BH13_0.0-0.2	Jun 12, 2024		US Leachate	S24-Jl0009504	X	X		X
3	BH13_1.0-1.2	Jun 12, 2024		US Leachate	S24-Jl0009505	X			X
Test Counts						2	1	1	3

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*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 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

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

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

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

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
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 are 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							
Heavy Metals							
Nickel	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Lead	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Heavy Metals							
Nickel	%	97			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Lead	%	96			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Nickel	N24-Jn0074254	NCP	%	104			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	N24-Jn0074254	NCP	%	101			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S24-Jl0009252	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S24-Jl0009252	NCP	mg/L	0.07	0.07	1.9	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S24-Jl0009253	NCP	mg/L	< 0.001	< 0.001	<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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Nileshni Goundar	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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APPENDIX N: LIMITATIONS

IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY ENVIRONMENTAL REPORT

Introduction

This report has been prepared by Tetra Tech Coffey for you, as Tetra Tech Coffey's client, in accordance with our agreed purpose, scope, schedule and budget.

The report has been prepared using accepted procedures and practices of the consulting profession at the time it was prepared, and the opinions, recommendations and conclusions set out in the report are made in accordance with generally accepted principles and practices of that profession.

The report is based on information gained from environmental conditions (including assessment of some or all of soil, groundwater, vapour and surface water) and supplemented by reported data of the local area and professional experience. Assessment has been scoped with consideration to industry standards, regulations, guidelines and your specific requirements, including budget and timing. The characterisation of site conditions is an interpretation of information collected during assessment, in accordance with industry practice.

This interpretation is not a complete description of all material on or in the vicinity of the site, due to the inherent variation in spatial and temporal patterns of contaminant presence and impact in the natural environment. Tetra Tech Coffey may have also relied on data and other information provided by you and other qualified individuals in preparing this report. Tetra Tech Coffey has not verified the accuracy or completeness of such data or information except as otherwise stated in the report. For these reasons the report must be regarded as interpretative, in accordance with industry standards and practice, rather than being a definitive record.

Your report has been written for a specific purpose

Your report has been developed for a specific purpose as agreed by us and applies only to the site or area investigated. Unless otherwise stated in the report, this report cannot be applied to an adjacent site or area, nor can it be used when the nature of the specific purpose changes from that which we agreed.

For each purpose, a tailored approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify, and if possible quantify, risks that both recognised and potential contamination pose in the context of the agreed purpose. Such risks may be financial (for example, clean up costs or constraints on site use) and/or physical (for example, potential health risks to users of the site or the general public).

Limitations of the Report

The work was conducted, and the report has been prepared, in response to an agreed purpose and scope, within time and budgetary constraints, and in reliance on certain data and information made available to Tetra Tech Coffey.

The analyses, evaluations, opinions and conclusions presented in this report are based on that purpose and scope, requirements, data or information, and they could change if such requirements or data are inaccurate or incomplete.

This report is valid as of the date of preparation. The condition of the site (including subsurface conditions) and extent or nature of contamination or other environmental hazards can change over time, as a result of either natural processes or human influence. Tetra Tech Coffey should be kept appraised of any such events and should be consulted for further investigations if any changes are noted, particularly during construction activities where excavations often reveal subsurface conditions.

In addition, advancements in professional practice regarding contaminated land and changes in applicable statues and/or guidelines may affect the validity of this report. Consequently, the currency of conclusions and recommendations in this report should be verified if you propose to use this report more than 6 months after its date of issue.

The report does not include the evaluation or assessment of potential geotechnical engineering constraints of the site.

Interpretation of factual data

Environmental site assessments identify actual conditions only at those points where samples are taken and on the date collected. Data derived from indirect field measurements, and sometimes other reports on the site, are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact with respect to the report purpose and recommended actions.

Variations in soil and groundwater conditions may occur between test or sample locations and actual conditions may differ from those inferred to exist. No environmental assessment program, no matter how comprehensive, can reveal all subsurface details and anomalies. Similarly, no professional, no matter how well qualified, can reveal what is hidden by earth, rock or changed through time.

The actual interface between different materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions.

For this reason, parties involved with land acquisition, management and/or redevelopment should retain the services of a suitably qualified and experienced environmental consultant through the development and use of the site to identify variances, conduct additional tests if required, and recommend solutions to unexpected conditions or other unrecognised features encountered on site. Tetra Tech Coffey would be pleased to assist with any investigation or advice in such circumstances.

Recommendations in this report

This report assumes, in accordance with industry practice, that the site conditions recognised through discrete sampling are representative of actual conditions throughout the investigation area. Recommendations are based on the resulting interpretation.

Should further data be obtained that differs from the data on which the report recommendations are based (such as through excavation or other additional assessment), then the recommendations would need to be reviewed and may need to be revised.

Report for benefit of client

Unless otherwise agreed between us, the report has been prepared for your benefit and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendation and should make their own enquiries and obtain independent advice in relation to such matters.

Tetra Tech Coffey assumes no responsibility and will not be liable to any other person or organisation for, or in relation to, any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report.

To avoid misuse of the information presented in your report, we recommend that Tetra Tech Coffey be consulted before the report is provided to another party who may not be familiar with the background and the purpose of the report. In particular, an environmental disclosure report for a property vendor may not be suitable for satisfying the needs of that property's purchaser. This report should not be applied for any purpose other than that stated in the report.

Interpretation by other professionals

Costly problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, a suitably qualified and experienced environmental consultant should be retained to explain the implications of the report to other professionals referring to the report and then review plans and specifications produced to see how other professionals have incorporated the report findings.

Given Tetra Tech Coffey prepared the report and has familiarity with the site, Tetra Tech Coffey is well placed to provide such assistance. If another party is engaged to interpret the recommendations of the report, there is a risk that the contents of the report may be misinterpreted and Tetra Tech Coffey disowns any responsibility for such misinterpretation.

Data should not be separated from the report

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings, etc. are customarily included in our reports and are developed by scientists or engineers based on their interpretation of field logs, field testing and laboratory evaluation of samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

This report should be reproduced in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

Responsibility

Environmental reporting relies on interpretation of factual information using professional judgement and opinion and has a level of uncertainty attached to it, which is much less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. As noted earlier, the recommendations and findings set out in this report should only be regarded as interpretive and should not be taken as accurate and complete information about all environmental media at all depths and locations across the site.