

Prepared for: Land and Housing Corporation C/- ADW Johnson Pty Ltd EP3269.004 16 May 2025











Preliminary Site Investigation

Farnell Street, Forbes, NSW

Land and Housing Corporation C/- ADW Johnson Pty Ltd 7/335 Hillsborough Road Warners Bay NSW 2282

16 May 2025

Our Ref: EP3269.004

LIMITATIONS

This Preliminary Site Investigation was conducted on the behalf of Land and Housing Corporation C/- ADW Johnson Pty Ltd for the purpose/s stated in **Section 1**.

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It is not possible in a Preliminary Site Investigation to present all data, which could be of interest to all readers of this report. Readers are referred to any referenced investigation reports for further data.

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QUALITY CONTROL

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Executive Summary

Introduction

EP Risk was engaged by ADW Johnson Pty Ltd (ADWJ) to undertake a desktop Preliminary Site Investigation (PSI) for the proposed residential subdivision development at a Site located at Farnell Street, Forbes, NSW. The PSI is required to assess contamination as required by State Environmental Planning Policy (Resilience and Hazards) 2021. The Site is legally described as Lot 7332 in DP1166365, Lot 7025 in DP1020631, Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961.

Objective

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use (residential).

Summary of Findings

The summary of findings of the PSI are as follows:

- The surrounding land use and / or environmental setting is primarily residential and agricultural / rural land.
- Based on the review of the historical information, the Site was formerly used for travelling stock, a
 gravel pit / gravel hardstand, an easement for a transmission line and a vacant reserve under crown
 land. The surrounding land use comprised rural / agricultural and residential land use.
- No background issues were identified at the Site.
- There was the potential for contamination and aesthetic issues at the Site associated with historical
 activities including the operation of a gravel hardstand and storage area, disturbed soil and fly
 tipping, an electrical easement and fill imported during construction of Lower Morton Street and
 access tracks.
- In general, the subsurface conditions comprised of sandy silt topsoil / fill which was underlain by gravelly clay and silty clay with clastic material, and extremely weathered sandstone and siltstone with trace clasts.
- No exceedances to the adopted ecological or human health assessment criteria were observed for soil tested at the Site.
- Overall, based on this assessment and the conceptual site model for the proposed development
 there are potential complete source-pathway-receptor linkages from aesthetic issue related to fly
 tipping (AEC 1), potential treated timber power pole butts within the electrical easement onsite
 (AEC 3) and materials imported during construction of Lower Morton Road and access tracks
 (AEC 4).



Conclusions and Recommendations

While contamination at a level warranting management or remediation was not identified, the following is recommended to meet industry best practice during development activities:

- Anthropogenic material from the suspected fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- If these electrical power pole butts are to be removed offsite, the material should be assessed in accordance with Part 10 and Clause 101 of the Protection of the Environment Operations (Waste) Regulation 2014, where the NSW EPA has issued general immobilisation approvals by notice in the Gazette for treated timber power poles including Tanalith E, Copper-Chrome Arsenate (CCA) and Creosote treated timber waste.
- The unexpected finds protocol (attached as Appendix G) should be implemented during redevelopment to address any unidentified contamination that may be encountered during the proposed redevelopment works.



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1 Introduction

EP Risk Management Pty Ltd (EP Risk) was engaged by ADW Johnson Pty Ltd (ADWJ) to undertake a Preliminary Site Investigation (PSI) for a property located at Farnell Street, Forbes, New South Wales (NSW) (the Site). It is understood the Site is proposed to be subdivided for future residential development (Proposed Development) and the PSI is required in accordance with State Environmental Planning Policy (Resilience and Hazards). The extent of the proposed development is shown in **Appendix A**.

1.1 Site Identification

The Site identification details are presented in Table 1.

Table 1 – Site Identification		
Item	Description	
Address	Farnell Street, Forbes, NSW (Figure 1)	
Legal description	The Site is legally described as Lot 7332 in DP1166365, Lot 7025 in DP1020631 Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961.	
Approximate Area	Approximately 12.2 hectares (ha).	
Municipality	Forbes Shire Council (Council)	
Zoning	The Forbes Environment Plan (LEP) 2013 identifies the Site as R1 – General Residential	

1.2 Objective

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed residential land use.

1.3 Scope of work

The scope of work completed to achieve the objective was:

- Undertake a desktop study for a Site history review, based upon:
 - Council and regulatory records;
 - Historical aerial photographs;
 - o Review of business directories at the Site and surrounding land;
 - Regulatory searches, including NSW Environmental Protection Authority (EPA) Notified,
 Contaminated and Investigation Sites; and
 - Geological and hydrological information.
- Undertake a Site visit to observe onsite and offsite conditions.
- Identify potentially contaminating activities that have occurred at the Site based on a desktop study and develop a preliminary site conceptual model (CSM).
- Prepare all work health and safety documentation and procure dial before you dig information.



- Advance 12 test pits within the Site boundary to the maximum depth of 3.0 metres below ground level (m BGL) or prior rock refusal.
- Collect samples from the 12 test pits and submit to a National Association of Testing Authorities (NATA) accredited laboratory for analysis.
- Preparation of a report in accordance with the NSW Environment Protection Authority (NSW EPA)
 (2020) Guideline for Consultants Reporting on Contaminated Land and the National Environment
 Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM 2013).

1.4 Technical Framework

The PSI was conducted in general accordance with:

- ASC NEPM (2013).
- AS 4482.2-1999: Guide to the investigation and sampling of sites with potentially contaminated soil, Part 2: Volatile substances.
- Department of Urban Affairs and Planning and Environment Protection Authority (EPA) (1998)
 Managing Land Contamination, Planning Guidelines, SEPP 55 Remediation of Land.
- Forbes LEP (2013).
- NSW EPA (2017) Guidelines for the NSW Auditor Scheme (3rd Edition) (NSW Auditor Guidelines).
- NSW EPA (2020) Contaminated Land Guidelines Consultants Reporting on Contaminated Sites.
- NSW EPA (2022) Contaminated Land Guidelines: Sampling Design part 1 application.
- NSW EPA (2022) Contaminated Land Guidelines: Sampling Design part 2 interpretation.
- Protection of the Environment Operations (POEO) Act 1997.
- State Environmental Planning Policy (Resilience and Hazards) 2021 (Resilience and Hazards SEPP).
- United State Environment Protection Agency (USEPA) (2006) Guidance on Systematic Planning Using the Data Quality Objectives Process, ref: EPA QA/G-4.
- Western Australian (WA) Department of Health (DOH) (2020) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (DOH 2020).



2 Site Condition and Surrounding Environment

Most of the information provided in the following sections was obtained from Lotsearch Environmental Risk and Planning Report (Lotsearch, 2023) which was obtained for the Site. A copy of the Lotsearch (2023) report is attached as **Appendix B**.

It should be noted that Part Lot 1 in DP1077961 was outside of the boundary of the Lotsearch (2023) report however the datasets were reviewed in respect to this additional area and summarised in the following sections.

2.1 Land Use and Layout

The Site comprises of a large irregular shaped portion of land, approximately 12.2 Ha in size. An Environmental Scientist from EP Risk attended the Site on 9th April 2025 to undertake a site walkover and visual inspection. General site features observed are summarised below:

- The Site was comprised of a large vacant grassed area that was relatively flat (Plate 1, 2, 3 and 4), which included small shrubs and trees in the northern portion of the Site (Plate 5). Small amounts of anthropogenic materials (cables, plastic) appear to have been illegally dumped in this area (Plate 6).
- Several dirt access tracks dissect the Site which predominantly run north to south (Plate 7, 8 and
 9). A section of gravel hardstand road is in the southern portion of the Site.
- A portion of Lower Morton St (bitumen road) dissects the Site at the southern boundary and travels west through the boundary of the Site.
- Longer grass cover was present in the southern portion of the Site, which included small quantities
 of anthropogenic material (car seat, metal), which appear to have been illegally dumped (Plate 10).
- A gravel (blue metal gravel) hard stand laydown area was observed in the southern portion of the Site. (Plate 24)
- Multiple powerlines dissect the central portion of the Site. (Plate 11)
- The Site contains no fencing along several portions of the perimeter and was freely accessed by the public.

Photographs of the Site are attached as **Appendix C**.



2.2 Surrounding Land Use

As of 31st July 2023, surrounding land uses comprised:

- North: Agricultural land zoned as RU1 Primary Production and residential properties zoned as R1
 General Residential.
- South: Residential properties zoned as R1 General Residential.
- East: Residential properties zoned as R1 General Residential.
- West: Residential properties and agricultural land zoned as R1 General Residential.

2.3 Environmental Setting

A summary of the information accessible through publicly available records is summarised in **Table 2** below.

Table 2 – Environmental Setting				
Record	Findings			
Topography and Hydrology	The majority of the Site consists of slight rising slopes to the north. Site drainage consists of surface runoff migrating across the Site following surface contours as overland flow towards and creeks and dams in the south and west. A plan showing the topographical contours of the Site is provided within the Lotsearch (2023) Report in Appendix B .			
Geology	Based on the geological data sourced from the NSW Department of Industry, Resources and Energy (Lotsearch, 2023) the Site is underlain by a mixture of Colluvial, aeolian, alluvial and residual deposits comprising Quaternary aged sediments.			
Soil Landscapes	Based on the soil landscapes data sourced from the NSW OEH (Lotsearch, 2023) the Site is located within the Kandosol soil order. The soil landscapes are the Bald Hill Landscape which covers an area of narrow elongate crests, ridges and gently inclined sideslopes at Forbes and south and west of Forbes on predominately sandstones. The main soils are widespread shallow, rapidly drained Lithosols. Shallow well-drained Red Earths and occasional shallow well-drained Red Podzolic Soils occur on sideslopes.			
Hydrogeology	A search of the NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation undertaken by Lotsearch (2023) indicated there were no registered groundwater bores located on-site. However, 60 registered groundwater bores were located within 2 km of the Site. The authorised purpose of the bores were for water supply, monitoring and stock and domestic and the depth ranged from 2.30 m below ground level (m BGL) and 74 m BGL. Standing water levels and salinity were reported for select bores on the bore report. Standing water levels ranged from 1.11 m BGL to 26 m BGL and salinity ranged from 2010 mg/L to 8100 mg/L. Review of the Hydrogeology Map of Australia, Lotsearch (2023) identified fractured or fissured, extensive aquifers of low to moderate productivity. Regional groundwater flow direction of the upper aquifer is expected to be to the south towards Lake Forbes and the Lachlan River.			
Natural Occurring Asbestos Potential	No reported naturally occurring asbestos potential has been identified within 1 km of the Site.			



Table 2 – Environmental Setting				
Record	Findings			
Acid Sulfate Soils	Based upon a review of the Forbes LEP (2013), the Site is not located within an area mapped as an acid sulfate soil risk area. A search of the Atlas of Australian ASS database completed by Lotsearch (2023) identifies the Site to be within a Class C category for acid sulfate soils. The Class C category is considered to have an extremely low probability of ASS occurrence (1-5% chance) of occurrence.			
Dryland Salinity	With reference to the Dryland Salinity Data sourced from Lotsearch (2023), the Site is located within an area of no Dryland Salinity – National Assessment data onsite.			
Bushfire Prone Area	The site was not listed as a bush fire prone area.			
Ecology	According to NSW OEH, the majority of the site has no ecological constraints. One low groundwater dependent ecosystem (Vegetation) was identified on-site in the northwestern corner and one moderate groundwater dependent ecosystem (Vegetation) was identified 15m North-west. No RAMSAR wetlands existed on-site or within 1 km of the site.			
Waste Management Facilities	No waste management facilities were identified within 1 km of the Site.			
National Liquid Fuel Facilities	There were no national liquid fuel facilities listed within 1 km of the Site.			
Mining Subsidence	With reference to the Mining Subsidence District Data sourced from Lotsearch (2023), the Site is not located within a mining subsidence district.			
Mining and Exploration Titles	Two current mining and exploration titles exist at or within 1km of the site, identified for minerals resources – Group 1.			
	 Godolphin Tenements Pty Ltd; Current expiry date 05/05/2023 and last renewed 05/05/2023, operation is exploring – 0m on-site. Strategic Energy Resources Limited; Current expiry date 09/03/2025, operation is exploring – 20m south. 			
Cattle Dips	No records of cattle dips were recorded at or within 1 km of the Site according to a search of the Department of Primary Industries Data Base.			
Former Gasworks	No former gasworks have been identified at or within 1 km of the Site.			

2.4 Regulatory Searches

A summary of the regulatory searches performed by Lotsearch (2022) are summarised in **Table 3**.

Table 3 – Regulatory Searches			
Search Results			
Contaminated Land	The Site was not listed as contaminated under the Contaminated Land Management Act (CLM Act) 1997. As of 26.07.23 the Site was not listed on the NSW Environment Protection Authority (NSW EPA) Record for Contaminated Sites notified to the NSW EPA in accordance with the CLM Act 1997. No sites notified to the NSW EPA were located within 1 km of the Site.		



Table 3 – Regulatory Searches				
Search	Results			
Licensed Activities under the Under the Protection of the Environment	Licensed activities under the POEO Act at or within 1 km of the Site are: Australian Rail Track Corporation Limited, for activities related to railway systems activities – located 914 m south east.			
Operations Act 1997	The licensed activities are considered to present a low risk of contamination based upon the nature of the activities, separation distance and downgradient location.			
Delicensed Activities Still Regulated by the NSW EPA	No delicensed activities still regulated by the NSW EPA were identified at or within 1 km of the Site.			
Former Licensed Activities under the POEO Act 1997,	Former licensed activities under the POEO Act now revoked or surrendered were not identified at the Site.			
now revoked or surrendered	There were five (5) records of Former Licensed Activities under the POEO Act 1997, now revoked or surrendered, located within 1 km of the Site as follows:			
	 Luhrmann Environment Management Pty Ltd, for Waterways Throughout NSW, surrendered for non-scheduled activity- application of Herbicides, surrendered 06/09/2000 – located within Part Lot 1 in DP1077961. Robert Orchard for Various Waterways throughout New South Wales – Sydney NSW 2000, Surrendered 07/09/2000 for Other Activities / Non-Scheduled Activity - Application of Herbicides – located within Part Lot 1 in DP1077961. Sydney Weed and Pest Management Pty Ltd for Waterways throughout NSW – Prospect NSW 2148. Surrendered 09/11/2000 for Other Activities / Non-Scheduled Activity - Application of Herbicides – located within Part Lot 1 in DP1077961. Swift Australia (Southern Pty Limited), for Newell Highway Forbes, NSW,2871. Surrendered 11/09/2000 for rendering or fat extraction – located 857m east. Swift Australia (Southern Pty Ltd) for Newell Highway Forbes, NSW,2871. Surrendered 11/09/2000 for slaughtering or processing animals – located 857m east. The former licensed activities are considered to present a low risk of contamination based upon the separation distance and / or nature of the 			
NSW EPA per- and poly- fluoroalkyl substances (PFAS) Investigation and Management Programs	activities. No sites under the NSW PFAS Investigation Program, Defence PFAS Investigation Program, Defence PFAS Management Program or Airservices Australian National PFAS Management Program were identified at or within 1 km of the Site.			
Defence 3 Year Regional Contamination Investigation Program	No sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program were identified within 1 km of the Site.			
Heritage	One Environmental Planning Instrument (EPI) heritage item was identified within 1 km of the site: • Forbes General Cemetery under the Forbes LEP (2013) – located 574m south west.			
	However, based on the distance from the site and nature of activities it is not considered to pose a risk to the site or impacted by potential contamination at the site.			



3 Site History

The Site history sources utilised during the review included:

- Historical aerial photography.
 - Historical business directories.
 - Historical title search information.

3.1 Review of Historical Arial Photos

Aerial photographs sourced from Lotsearch (2023) and Six Maps from 1955, 1965, 1974, 1983, 1989, 1998, 2006, 2010, 2011 2016 and 2022 were reviewed to identify past land uses of the Site and surroundings and **Table 4** provides a summary of the review.

Table 4 –	Table 4 – Historical Aerial Photograph Review				
Year	Description				
1955	Site: The Site was predominantly cleared of vegetation. No structures were evident at the Site during this time. Surroundings: The Site was surrounded by mostly cleared agricultural and rural residential land with scattered dwellings.				
1965	Site: No significant changes have occurred. Surroundings: Increase in residential dwellings to the south of the site.				
1974	Site: Evidence of access tracks across the southern end of Lot 7332. A small building was constructed on the outer southern border of Lot 7332. Surroundings: Increase in residential dwellings to the south and east of the site.				
1983	Site: Evidence of several access tracks across the whole site. Surroundings: Increase in residential dwellings to the south, east and north of the site.				
1989	Site: No significant changes have occurred. Surroundings: Increase in residential dwellings to the north of the site.				
1997	Site: No significant changes have occurred, except for the construction of Lower Morton Street in Lot 1. Surroundings: A residential dwelling adjacent to the western boundary was constructed, and more residential dwellings were constructed to the east.				
2006 Site: No significant changes have occurred. Surroundings: Increase in residential dwellings to the east.					
2011	Site: A light brown access track was visible at the southern end of the Site, likely to have been constructed with imported materials. A stockpile of anthropogenic materials was located on both sides of this track. A grey rectangular shaped area is also located to the west of the track and anthropogenic materials, likely to be associated with imported materials. Surroundings: Increase in residential dwellings adjacent to the northern boundary.				
2012	Site: The anthropogenic materials and grey rectangular area were no longer visible, and the area was covered with grass. The end of a cul-de-sac road was constructed at the southern end of Lot 7332. Surroundings: Increase in residential dwellings adjacent to the northern boundary.				
2016	Site: No significant changes have occurred. Surroundings: No significant changes have occurred.				



Table 4 – Historical Aerial Photograph Review				
Year	Description			
2022	Site: A drainage channel has been constructed in the southern portion of Lot 7025 which intersects the driveway/track at this location. Surroundings: No significant changes have occurred.			
2024	Site: No significant changes have occurred. Surroundings: No significant changes have occurred			

The aerial photographs reviewed are provided in the Lotsearch (2023) report provided as Appendix B.

3.2 Business Directory Search

No business activities were recorded at the Site however multiple business records matched to the area including:

- Carriers and / or cartage contractors.
- Bus operators.
- Plumbers, gas fitters and drainlayers.
- Bottled gas suppliers.
- Builders and/or building contractors.

Additional businesses were mapped to the road corridor; however their exact location was not known. Based upon the nature of the businesses and / or the separation distance, these activities are considered unlikely to

3.3 Historical Title Search

The historical title search completed by Lotsearch (2023) indicated that the land titles were created in 1891. Historically the land has been designated as a reserve under crown land and historically was utilised for travelling stock during 1890, and gravel pit from 1899 to 1972. The historical title search completed by Lotsearch (2023) is attached as **Appendix D**.

3.4 Summary of Site History

Based on the review of the historical information, the Site was formerly used for travelling stock, a gravel pit, an easement for a transmission line, vehicle access and a vacant reserve under crown land. The surrounding land use comprised rural / agricultural and residential land use.



4 Sampling and Analysis

4.1 Data Quality Objectives

To assess whether an appropriate sampling strategy was adopted for the PSI, EP Risk adopted the data quality objectives (DQOs) planning process as:

- Recommended in the ASC NEPM 2013.
- Required within the NSW EPA (2017), Guidelines for the NSW Site Auditors Scheme (3rd edition).
- With consideration to technical details outlined in US EPA (2006) Guidance on Systematic Planning Using the Data Quality Objectives Process, ref: EPA QA/G-4 and AS 4482.1-2005 Guide to the investigation and sampling of sites with potentially contaminated soil Part 1: Non-volatile and semi-volatile compounds.

Step 1 – State the Problem

Preliminary Conceptual Site Model based on the site history review:

- Sources Area of Environmental Concern (AEC) 1 fly tipping (AEC 1), AEC 2 uncontrolled filling and tailings from gravel pit, the construction and maintenance of electrical easements (AEC 3) and Lower Morton Street and imported fill for access tracks (AEC4).
- Contaminants potentially metals (As, Cd, Cr Cu, Pb, Hg, Ni and Zn)¹, organics (TRHs, BTEX, PAHs and OCPs/OPPs)², and asbestos fibres/fragments.
- Media The current potential affected media at the Site includes soil.
- **Receptors** site maintenance workers. If developed, site workers (surface and sub-surface), residents and visitors (adults and children).
- **Pathways** dermal contact, inhalation of dust and ingestion have been identified as the pathways of concern.

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use. The AECs are shown in **Figure 2**.

Step 2, 3 and 5 – Goals of the Study, Required Inputs and Analytic Approach

Given the Site is to be redeveloped into a residential development, the decision-making process for urban redevelopment Sites provided by the NSW EPA (2017) was considered in the development of the following decisions that need to be addressed.

The decision-making process for assessing urban redevelopment sites was adopted and summarised in Table 5.

The inputs required to make the decision are presented in Table 6

The Tier 1 assessment criteria for the contaminants of concern are presented in Section 5. These criteria have been adopted to determine whether additional assessment is required and/or whether the Site is suitable for the proposed land use.

¹ Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Mercury (Hg), Nickel (Ni), and Zinc (Zn).

² Total recoverable hydrocarbon (TRHs), Benzene, toluene, ethylbenzene, xylene, naphthalene (BTEXN), Polycyclic aromatic hydrocarbons (PAHs).



Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison to adopted assessment criteria as undertaken by assessment of quality assurance / quality control (QA/QC) as per the data quality indicators (DQIs) established in **Section 4.2**.

Step 4 – Define the Boundaries of the Study

The spatial boundaries of the PSI comprised Farnell Street, Forbes, NSW. The legal description of the Site is Lot 7332 in DP1166365, Lot 7025 in DP1020631, Lot 7317 in DP1166614 and works within Part Lot 1 in DP1077961 and covers an area approximately 12.3 ha. The proposed depth for the investigation is 3.0 m BGL. The approximate boundaries are shown in **Figure 1**.

Due to project objectives, seasonality was not assessed as part of this investigation. Data was therefore representative of the timing and duration of the current investigation.



Table 5 – Goals of the Study, Required Inputs and Analytic Approach					
Decision	Rule	Inputs/Media	Associated AECs	CoPCs	
Has soil been assessed against relevant health investigation levels (HILs) and health screening levels (HSLs), and has potential for migration of contamination been considered?	The potential for soil impacts will be assessed via a desktop study. Therefore, no analytical data will be available to be compared against the adopted health and ecological criteria. Where potential contaminating activities are found then additional assessment will be required.	Desktop study, historical records, site observations and soil sampling	AEC 1 - Fly tipping. AEC 2 - Fuel from mobile plants associated with the historical gravel pit / gravel hardstand area. AEC 3 - Treated timber electrical power poles associated with the electrical easement onsite. AEC 4 – Lower Morton Street and	Metals (As, Cd, Cr Cu, Pb, Hg, Ni and Zn), organics (TRHs, BTEX, PAHs and OCPs / OPPs), asbestos fibres / fragments.	
Are there any issues relating to local area background soil concentrations that exceed relevant investigation levels have been adequately addressed in the site assessment report(s)?	If any potential off-site sources of contamination have been identified, then additional assessment will be required.	Desktop study, historical records, site observations and soil sampling	imported fill for access tracks.		
Are there impacts of chemical mixtures?	Where potential contaminating activities are identified associated with chemical mixtures then additional assessment will be required.	Desktop study, historical records, site observations and soil sampling			
Are there any potential ecological risks? If yes, have these been assessed?	There was no data available to be compared against the adopted health and ecological criteria. Where potential contaminating activities are found then additional assessment will be required.	Desktop study, historical records, site observations and soil sampling			
Are there any potential human health risks to the identified Site receptors?					
Is there any evidence of, or potential for, migration of contaminants from the site? Has this been appropriately addressed, including potential risks to off-site receptors, and reported to the site owner or occupier?					
Are there any aesthetics issues in fill at the site?	If there are any unacceptable staining, odours or significant amounts of anthropogenic fill materials then additional assessment will be required.				
Is there sufficient information to accurately characterise the site contamination?	Where potential contaminating activities are identified during the desktop study then additional assessment will be required.				
Is further investigation required?					
Is a site management strategy required?					



Step 6 – Specify Performance or Acceptance Criteria

As per EPA (2022) Step 6 of the DQOs process establishes quantitative criteria known as performance or acceptance criteria:

- for decision problems, these are typically tolerable limits on the probability or chance (risk) of the collected data leading to making an erroneous decision (e.g. confidence levels)
- for estimation problems, these are typically an acceptable uncertainty, for example, the width of an uncertainty band or interval, associated with a point estimate at a desired level of statistical confidence (e.g. confidence intervals).

Specify probability limits for false rejection and false acceptance of decision errors:

- Specify the decision rule as a statistical hypothesis test The null hypothesis is that the material is contaminated and exceeds the adopted criteria. The alternative hypothesis is that the material is not contaminated above the adopted criteria.
- Examine consequences of making incorrect decisions from the test:
 - the material being accepted as suitable for a HIL-A land use when it is not, thereby potentially risking human health or environmental impacts.
 - unnecessary disposal of the material offsite, imposing needless financial and resource burdens on the development project and resulting in an inappropriate waste classification.
- Place acceptable limits on the likelihood of making decision errors, including acceptable alpha (α) and beta (β) risk levels for stated hypotheses:
 - \circ null hypothesis (H0): the 95% UCL, and other requirements, are > the action level.
 - o alternate hypothesis (HA): the 95% UCL, and other requirements, are \leq the action level.
 - Potential outcomes include Type I and Type II errors:
 - Type I error of determining the material is acceptable for the proposed HIL-A land use when it is not (wrongly rejects true H0).
 - Type II error of determining the material is unacceptable for the proposed HIL-A land use when it is acceptable (wrongly accepts false H0).
 - For performance criteria, the acceptable limits on the likelihood of making decision errors to be applied are:
 - alpha risk (Type I error) of $\alpha = 0.05$
 - beta risk (Type II error) of β = 0.2.

No previously collected data were available for use, therefore acceptance criteria are not required



4.2 Data Quality Indicators

The acceptable limit of error for sampling techniques and laboratory analysis was defined by the DQIs as follows:

Precision

A measure of the reproducibility of on measurements under a given set of conditions. The relative percent difference (RPD) has been adopted to assess the precision of data between duplicate sample pairs according to the following equation.

$$RPD\% = \frac{[Cp - Cd]}{Cp + Cd} \times 200$$

Where:

Cp = Primary sample Cd = Duplicate Sample

An acceptance criterion of $\pm 50\%$ had been adopted for inorganic field duplicates and triplicates and $\pm 50\%$ for organic field duplicates and triplicates. However, it should be noted that exceedances of these criteria are common for heterogeneous soil or fill or for low analyte concentrations.

Accuracy

A measure of the bias in the analytical results and can often be attributed to field contamination; insufficient preservation or sample preparation; or inappropriate analytical techniques. Accuracy of the analytical data is assessed by consideration of laboratory control samples and laboratory spikes.

The DQIs, requirements and indicators for the assessment are presented in **Table 6**.

Representativeness

Expresses the accuracy and precision with which sample data represents an environmental condition. Data representativeness was achieved by the collection of samples at an appropriate pattern and density as well as consistent and repeatable sampling techniques and procedures.

Completeness

Refers to, the percentage of data that can be considered valid data. Sufficient data was required to enable an assessment of the Decision Rules.

Comparability

A qualitative comparison of the confidence with which one data set can be compared to another. This was achieved through consistent sampling and analytical testing and reporting techniques.



Table 6 – DQI and Requirements			
DQI	Requirement	Data Quality Assessment (DQA) Criteria	
Precision			
Standard operating procedures appropriate and complied with	The sampling methods comply with industry standards and guidelines	Meet requirement	
Intra-laboratory duplicates	1 per 20 samples	RPDs < 50%	
Inter-laboratory triplicates	1 per 20 samples	RPDs < 50%	
Laboratory duplicates	Minimum of 1 per batch per analyte	RPDs < 50%	
Accuracy			
Laboratory matrix spikes	1 per batch per volatile/semi- volatile analyte	Recoveries 50% to 150%	
Laboratory surrogate spikes	1 per volatile/semi-volatile analyte sample (as appropriate)	Recoveries 70% to 130%	
Laboratory control samples	At least 1 per batch per analyte tested for	Result < laboratory reporting limit	
Representativeness			
Sampling methodology - preservation	Appropriate for the sample type and analytes	Meet requirement	
Samples extracted and analysed within holding times	Specific to each analyte	Meet requirement	
Laboratory method blanks	At least 1 per batch per analyte tested for	Result < laboratory reporting limit	
Trip blanks	1 per lab batch for volatile analytes	Result < laboratory reporting limit	
Trip spikes	1 per lab batch for volatile analytes	Recoveries 60-100%	
Rinsate	1 per lab batch for volatile analytes	Result < laboratory reporting limit	
Decontamination procedures	All sampling equipment to be decontaminated between each sample	Meet requirement	
Comparability			
Sampling approach	Consistent for each sample	Meet requirement	
Analysis methodology	Consistent methodology for each sample	Meet requirement	
Handling conditions and sampler	Consistent for each sample	Meet requirement	
Field observations and analytical	Field observations to support analytical results	Meet requirement	
Consistent laboratory reporting limit	Consistent between primary and secondary laboratories	Meet requirement	



Table 6 – DQI and Requirements				
DQI	Requirement	Data Quality Assessment (DQA) Criteria		
Laboratory accreditation	NATA accredited laboratory for methods used	Meet requirement		
Accredited methods	NATA accredited methods used appropriate for each analyte	Meet requirement		
ASC NEPM (2013) lab methods	Lab methods consistent with the ASC NEPM (2013)	Meet requirement		
Completeness				
Sample logs	Provide	Meet requirement		
Chain of custody	Provide	Meet requirement		
Sample receipt acknowledgement	Provide	Meet requirement		
Laboratory reports	Provide	Meet requirement		
Overall data set quality 95% of the data must satisfy the DQIs of both field and laboratory data				



5 Sampling Design and Methodology

Various strategies for developing a statistically based sampling plan are identified in EPA (2022), including judgemental, random, systematic and stratified sampling patterns. Random sampling is not considered appropriate. The specific scope is discussed below.

EP Risk used ALS Global and Eurofins MGT as the primary and secondary laboratories, both of which are NATA accredited for the required analysis. The laboratory analysis was undertaken in accordance with **Table 7**.

Soil Sampling

The minimum recommended sampling density in NSW EPA Sampling Design Part 1 – Application (2022) is 118 soil locations to assess an area of 10.05 ha. It is proposed to collect samples at approximately 10% of the NSW EPA (2022) minimum sampling density (12 soil locations), due to the provisional nature of the assessment and the low risk of contamination based on the Site history. However, it should be noted that depending upon the results of the assessment, additional sampling and testing may be required to comprehensively delineate contamination, which is outside the scope of work provided.

Proposed soil sampling locations are provided as Figure 3 attached and the scope is detailed in Table 7 below.

It was noted that due to the operational status of Lower Morton Street and constructed access tracks at the Site, sampling beneath these AECs was not undertaken due to Site constraints.



Table 7 – Sampling and Analysis Plan and Methodology					
Media	Scope of Work (Inputs)	Number of Sampling Locations	Samples and Analysis	Adopted Tier 1 Criteria	
Soil	 Soil samples were collected from 12 test pit locations. Collection of soil samples from 0.0 – 0.1 m below ground level (mBGL), 0.5 mBGL, 1.0 mBGL, and every 1.0 m thereafter until a target depth of 3.0 m BGL or prior rock refusal (whichever is encountered first). Test pits were advanced via a 5-tonne excavator fitted with a 600 mm bucket to a maximum depth of 3.0 m BGL or prior rock refusal. Soils were logged for type, colour, texture, other characteristics and indications of contamination as presented in the test pit logs attached as Appendix E. Screening of soil samples using a photoionisation detector (PID). A dedicated pair of nitrile gloves was used for each sample to prevent cross contamination. Sufficient soil samples were collected and placed into laboratory prepared sampling jars with a unique sample ID added to the label on each jar. The sample jars were preserved on ice immediately after sampling and during shipment to a National Association Testing Authorities NATA accredited laboratories for analysis. The laboratory chain of custody documentation was completed and accompanied the samples during shipment. 	12 test pits	Analytical testing by a NATA accredited laboratory of one (1) selective soil sample per test pit location (maximum 12 samples) for the following: • Heavy metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Zinc) / Organochlorine pesticides (OCP) / Organophosphorus pesticides (OCP) – 12. • Total Recoverable Hydrocarbons (TRH) / Benzene, toluene, xylene, ethylbenzene, Naphthalene (BTEXN) / Polyaromatic Hydrocarbons (PAH) / Polychlorinated biphenyls (PCB) – 12. • NEPM Screen for Soil Classification – 1. QA/QC Samples as follows: • Duplicates / triplicates (as per primary) – 2. • Rinsate (as per primary) – 1 - Metals, TRH, PAH, BTEX, PAHs. • Trip Blank and Spike-BTEX, TRH C6-C9 – 1.	For the purposes of assessing the results of analytical testing of soil at the Site, the following guidelines will be considered: • Health-based Criteria for the current and proposed land use: ASC NEPM 2013 Health-based Investigation Levels (HILs) and Health Based Screening Levels (HSLs) for residential land. • Ecological Criteria: ASC NEPM 2013 Ecological-based Investigation Levels (EILs) and Ecological based Screening Levels (ESLs) for urban residential. • Management Limits: ASC NEPM 2013 management limits are based upon the physical properties of petroleum hydrocarbons to form observable light non-aqueous phase liquid (LNAPL); create fire and explosion hazards or penetrate or damage underground services. The management limits for residential land based on coarse / fine soil have been adopted. • Aesthetics: The consultant should also consider the need for remediation based on the 'aesthetic' contamination as outlined in Schedule B (1) of the ASC NEPM 2013 that states that 'there are no numeric Aesthetic Guidelines however site assessment requires balanced consideration of the quality, type and distribution of foreign material or odours in relation to the specific land use and its sensitivity'. Soil odour, discolouration and the presence of anthropogenic materials will need to be assessed during the assessment. The adopted soil criteria for the site are presented below: Guidelines COPC	



6 Quality Assurance and Quality Control (QA/QC)

An assessment of the field and laboratory DQI results is presented in Table 8.



DQI	Requirement	DQA	
Precision			
Standard operating procedures appropriate and complied with	The sampling methods comply with industry standards and guidelines.		
Intra- Laboratory duplicates	1 per 20 samples; and RPDs < 50%.		
Intra Laboratory Field triplicates	1 per 20 samples; and RPDs < 50%.		
Laboratory duplicates	Minimum of 1 per batch per analyte; RPDs < 50%; and >10%, laboratory specified.		
Accuracy			
Laboratory matrix spikes	1 per batch per volatile/semi-volatile analyte; and Recoveries >70% to 130%	Yes Yes	
Laboratory surrogate spikes	1 per volatile/semi-volatile analyte sample (as appropriate); and Recoveries 70% to 130%		
Laboratory control samples	At least 1 per batch for analyte tested: and		
Representativeness			
Sampling methodology - preservation	Appropriate for the sample type and analytes		
Samples extracted and analysed within holding times	Samples extracted and analysed within laboratory prescribed holding times		
Laboratory method blanks	At least 1 per batch per analyte tested for; and Result < laboratory reporting limit		
Trip blanks	1 per field laboratory reporting limit	Yes	
Trip spikes	1 per field batch for volatile analytes; and Recoveries 70-130%		
Rinsate	1 per field batch for volatile analytes; and Result < laboratory reporting limit	Yes Yes	
Decontamination procedures	All sampling equipment to be decontaminated between each sample		
Comparability			
Sampling approach	Consistent for each sample		
alysis methodology Consistent methodology for each sample		Yes	
Handling conditions and sampler	Consistent conditions and sampling staff used and observed for each sample	Yes	
Field observations and analytical	Field observations to support analytical results		



Table 8 – DQI Results Summary				
DQI	Requirement	DQA		
Consistent laboratory reporting limit	Consistent between primary and secondary laboratories	Yes		
Laboratory accreditation	NATA accredited laboratory for methods used	Yes		
Accredited methods	NATA accredited methods used appropriate for each analyte	Yes		
ASC NEPM (2013) lab methods	Lab methods consistent with the ASC NEPM (2013)	Yes		
Completeness				
Sample logs	Provided	Yes		
Chain of custody	Provided	Yes		
Sample receipt acknowledgement	Provided	Yes		
Laboratory reports	Provided	Yes		
Overall data set quality 95% of the data must satisfy the DQIs of both field and laboratory data		Yes		

³ The triplicate sample exceeded the RPD % for analytes Arsenic and Copper due to the heterogenous nature of fill materials. It is considered that these exceedances of the quality control criteria have not affected the usability of the data set collected in this investigation.

⁴ Sample NEPM_0.1 was subject to a two-day holding time breach in regard to pH CaCl. This was considered to not influence the representativeness of the data as supportive data from Espade also indicates soil pH to be in a similar range for the Site.



7 Results

7.1 Subsurface Conditions

The subsurface conditions encountered in the test pits across the Site are detailed in the attached test pit logs. These should be read in conjunction with the general notes proceeding them, which explain the descriptive terms and classification methods used in the report. In general, the subsurface conditions in the test pits can be summarised as follows:

- TOPSOIL: Sandy SILT, low plasticity, red-brown, dry, fine-grained sand. Encountered at a depth range of 0.0 m BGL to 0.15 m BGL.
- FILL: Sandy SILT, low plasticity, red-brown, dry, fine-grained sand, trace anthropogenic material (plastic). Encountered at a depth range of 0.0 m BGL to 0.2 m BGL.
- Gravelly CLAY, medium to high plasticity, red brown, with sub-rounded to sub-angular clasts, dry, hard. Encountered at a depth range of 0.1 m BGL to 2.2 m BGL.
- Silty CLAY, high plasticity, grey wit light brown mottling/red brown with grey mottling, trace subrounded to sub-angular clasts, dry, stiff. Encountered at a depth range of 1.4 m BGL to >3.0 m BGL.
- SILTSTONE, grey, red-brown, dry. Encountered at a depth of 1.0 m BGL to >3.0 m BGL.
- XW SANDSTONE, grey to red-brown, dry, coarse-grained sand, trace sub-rounded clasts. Encountered at a depth range of 1.1 m BGL to 1.8 m BGL.

Groundwater was not observed in any of the test pits at the time of the investigation. It should be noted the groundwater conditions may vary with seasonal and weather conditions along with construction related site conditions. Detailed soil profile logs are attached as **Appendix E**.

Soil Vapour Screening

No signs of visual staining or odours were observed in any sample collection with PID readings all recorded at <1 ppm.

7.2 Soil Analytical Testing

The results of soil analytical testing are contained in the analytical summary tables section at the rear of the report and the laboratory Certificates of Analysis (COA) are attached as **Appendix F**.

Asbestos

During the Site walkover and intrusive investigation no asbestos was observed at the time of the investigation. It should be noted that due to presence of thick vegetation, visual inspection of the surface of some areas of the site was restricted.

Metals / BTEXN / PAH / OCP / OPP / TPH and TRH

All Metals / BTEXN / PAH / OCP / OPP / TPH and TRH concentrations of the soil samples analysed were reported below the adopted human health and ecological criteria and / or laboratory limit of reporting (LOR).



Aesthetics

No anthropogenic materials were present in the soil profile and no significant fill was identified across the Site. Some minor fill was identified in the southern portion of the Site consisting of a gravel hardstand, however no anthropogenic materials or asbestos were identified in the test pit advanced within the fill material at the time of the investigation. Former power pole butts were observed embedded into the soils within the electrical easement onsite. Minor fly tipping was identified in the northern portion of the Site consisting of plastic and minor anthropogenic materials.



8 Discussion

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and present in **Table 5**, the decisions required to be made are detailed below.

Are there any unacceptable risks to future onsite or offsite receptors from impacted soil?

A number of potential contaminating activities were identified during the desktop study at the Site including fly tipping (AEC 1), fuel from mobile plants and fill associated with the historical gravel pit (AEC 2), treated timber poles in the easement area and imported fill material associated with the construction of Lower Morton Street and access tracks.

Following the Site inspection, the suspected gravel pit / disturbed soils in the southern portion of the Site was identified to be minor gravel fill material utilised as a hardstand. No evidence of asbestos or anthropogenic material were identified in the test pit advance in the fill material at the time of the investigation. The results of analytical testing of soil samples were all below the adopted health and ecological assessment criteria adopted for the Site. There was no unacceptable risk to future on-site receptors from impacted soil identified during the Tier 1 assessment of the Site.

Are there any background issues?

No background issues were identified during the desktop study. No background issues were identified during the Site inspection and soil sampling at the Site.

Are there impacts of chemical mixtures?

No impacts from potential chemical mixtures were identified at the site during the desktop study. No potential chemical mixtures were identified following the Site inspection and soil sampling completed at the Site.

Are there any potential ecological risks? If yes, have these been assessed?

There were no exceedances to the adopted soil ecological assessment criteria adopted for the Site in the soil analytical results reported. Therefore, no ecological risks at the Site were identified in the Tier 1 assessment.

Is there any evidence of, or potential for, migration of contaminants from the Site?

Based upon the historical review, inspection of the Site and soil analytical results there is no evidence of, or potential for migration of contaminants from the Site.

Are there any aesthetics issues in fill at the site?

Disturbed soil was identified on the southern end of the Site during the desktop study. Historical imagery showed that a stockpile of anthropogenic materials was situated close to this area. Therefore, there is a potential for anthropogenic materials to be found in this area as an unexpected find. During the Site inspection the stockpile of anthropogenic materials was no longer present onsite, and all anthropogenic materials had been removed and were not observed. A test pit was advanced within the disturbed soil area in the southern end of the Site and a shallow fill layer of a gravel was identified. This area was likely used as a storage hardstand pad at the Site. No evidence of anthropogenic material or asbestos were identified in the test pit or on the surface of the disturbed soil area in the southern portion of the Site.



Minor fly tipping of plastic and anthropogenic materials was identified in the northern portion of the Site. No asbestos was visually observed in these fly tipping areas.

Former power pole butts were observed embedded into the soils within the electrical easement onsite. If these electrical power pole butts are to be removed, the material should be assessed in accordance with Part 10 and Clause 101 of the Protection of the Environment Operations (Waste) Regulation 2014. The NSW EPA has issued general immobilisation approvals by notice in the Gazette for treated timber power poles including Tanalith E, Copper-Chrome Arsenate (CCA) and Creosote treated timber waste in accordance with the POEO regulation 2014.

Is there sufficient information to accurately characterise the site contamination?

EP Risk has adopted a reduced sampling density to the mining sampling density recommended by the NSW EPA (2022). However, the adopted sampling strategy is considered appropriate for a preliminary assessment with consideration of the historical land use and has met the adopted data quality objectives. Sufficient onsite inspections, soil sampling and desktop searches have been completed at the Site to assess the potential contamination risk of the Site.

Access for intrusive sampling beneath Lower Morton Street roadway and access track in the southern portion of the Site was not available due to the operational status of these structures. Due to the small area of Lower Morton Street in relation to the Site, it is considered that this data gap can be managed via the development and implementation of an unexpected finds protocol during redevelopment.

At the time of the assessment the Site was covered with vegetation consisting of thick grass cover in some areas. The presence of thick vegetation reduced the visibility of the ground surface during the site inspection, restricting the effectiveness of visual identification of signs of contamination and presence of anthropogenic materials. It is considered that this data gap can be managed via the development and implementation of an unexpected finds protocol during redevelopment.

Based upon the results of the assessment, it is considered that sufficient information has been collected to accurately characterise the site contamination subject to the development and implementation of an unexpected finds protocol during redevelopment.

Is Further Investigation Required?

No exceedances to the adopted ecological and human health assessment criteria were reported in the soils at the Site. Minor anthropogenic materials from suspected fly tipping were observed on the surface of the northern portion of the Site. Based on this it's considered that given the proposed use of the Site is for residential purposes no further investigation is required with respect to contamination.

Is a Site Management Strategy Required?

While contamination at a level warranting management or remediation was not identified, the following is recommended to meet industry best practice during development activities:

- Anthropogenic material from the suspected fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- The unexpected finds protocol (attached as **Appendix G**) should be implemented during redevelopment to address any unidentified contamination that may be encountered during the proposed redevelopment works.



9 Refined Conceptual Site Model

A refined conceptual site model (CSM) has been developed based upon the information provided in previous sections of this report.

Contaminating activities based on the Site inspection and review of historical records, the following activities have occurred at the Site which may have resulted in the potential for contamination. These activities are summarised as follows:

- AEC 1 Fly tipping.
- AEC 2 Historical gravel pit/gravel hardstand filling.
- AEC 3 Electrical Easement (Timber treated power pole butts).
- AEC 4 Lower Morton Street and access tracks.

9.1 Affected Media

The potential affected media at the Site is considered to be soil.

9.2 Human and Ecological Receptors

Sensitive receptors identified at and near the Site were considered to be:

- Site maintenance workers.
- If developed, future site workers (surface and sub-surface), residents and visitors (adults and children).
- Terrestrial fauna and flora at the Site and on adjoining land.

9.3 Potential and Completed Exposure Pathways

An analysis of the potential exposure pathways between the COPC and the identified human and ecological receptors are presented in **Table 9**.

Overall, based on this assessment and the conceptual site model for the proposed development there are potential complete source-pathway-receptor linkages from aesthetic issue related to AEC 1 – fly tipping and AEC 3 - potential treated timber power pole butts within the electrical easement onsite.



Table 9 – Source-Pathway-Receptor Linkages

Sources		Pathways	Linkagos	Summary of Findings and Comments			
Primary	Secondary	Contaminants	Affected Media	Exposure Pathways	Receptors	Linkages	Summary of Findings and Comments
AEC 1 - Fly tipping	anthropogenic heavy meta materials OPP, asbest	TRH, BTEX, PAH and heavy metals, OCP and OPP, asbestos, anthropogenic materials.	Soil	Human Health Dermal contact Incidental ingestion	 Future construction and sub-surface maintenance workers. Future residential/recreational users. 	Not Complete	Analytical soil testing results below the adopted assessment criteria.
		ditinopogenie materials.		Ecological: Uptake by flora and fauna	 Terrestrial fauna and flora at the Site and on adjoining land. Ecosystems dependant on the downgradient Creeks and Rivers 	Not Complete	Analytical soil testing results below the adopted assessment criteria.
				Aesthetics: Visual amenity	Future residential/recreational users.	Potentially Complete	Minor anthropogenic material identified in the northern portion of the Site. To be removed during redevelopment.
l · · · · ·	TRH, BTEX, PAH and heavy metals	Soil	Human Health Dermal contact Incidental ingestion	 Future construction and sub-surface maintenance workers. Future residential/recreational users. 	Not Complete	Analytical soil testing results below the adopted assessment criteria.	
				Ecological: Uptake by flora and fauna	 Terrestrial fauna and flora at the Site and on adjoining land. Ecosystems dependant on the downgradient Creeks and Rivers. 	-	
easement wa		TRH, BTEX, PAH and heavy metals, OCP and OPP		Human HealthDermal contactIncidental ingestion	 Future construction and sub-surface maintenance workers. Future residential/recreational users. 	Not Complete	Analytical soil testing results below the adopted assessment criteria.
				Ecological: Uptake by flora and fauna	 Terrestrial fauna and flora at the Site and on adjoining land. Ecosystems dependant on the downgradient Creeks and Rivers 		
				Aesthetics: • Visual amenity	Future residential/recreational users.	Potentially Complete	Former power pole butts were observed embedded into the soils within the electrical easement onsite. If these electrical power pole butts are to be removed, the material should be assessed in accordance with Part 10 and Clause 101 of the Protection of the Environment Operations (Waste) Regulation 2014, where the NSW EPA has issued general immobilisation approvals by notice in the Gazette for treated timber power poles including Tanalith E, Copper-Chrome Arsenate (CCA) and Creosote treated timber waste.
AEC 4 – Lower Morton Street and access tracks	Imported fill material	TRH, BTEX, PAH and heavy metals, OCP and OPP, asbestos, anthropogenic materials.	Soil	Human Health Dermal contact Incidental ingestion	 Future construction and sub-surface maintenance workers. Future residential/recreational users. 	Potentially Complete	Restricted access due to ongoing use of these structures. To be managed via the development and implementation of of an unexpected finds protocol during redevelopment.
	antinopogenie materia			Ecological: • Uptake by flora and fauna	 Terrestrial fauna and flora at the Site and on adjoining land. Ecosystems dependant on the downgradient Creeks and Rivers 	Potentially Complete	



10 Conclusions and Recommendations

EP Risk was engaged by Land and Housing Corporation c/- ADW Johnson to undertake a PSI for the proposed residential development at a Site located at Farnell Street, Forbes, NSW. It is understood the Site is proposed to be redeveloped into a residential development and the PSI is required to assess for the potential for contamination associated with historical land use.

The PSI was required to assess whether any contaminating activities are likely to have occurred at the Site which may present a human health or ecological risk under the proposed land use.

Based on the review of the historical information, the Site was formerly used as crown land. Potentially contaminating activities identified to have been undertaken at the Site include fly tipping (AEC 1), imported materials associated with a gravel hardstand area (AEC 2), the construction and maintenance of electrical easements (AEC 3) and imported materials associated with Lower Morton Street and access tracks (AEC 4). The surrounding land use comprised rural / agricultural and residential land use.

The desktop study, involving historical imagery and information obtained from Lotsearch (2023) and Six Maps also identified anthropogenic materials and disturbed soil visible on the surface of the Site at the southern end. During the Site walkover and intrusive investigation minor evidence of anthropogenic materials from fly tipping were observed in the northern portion of the Site (AEC 1), a gravel hardstand fill area was identified in the southern portion of the Site (AEC 2), treated timber power pole butts within the electrical easement onsite (AEC 3) and materials imported during construction of Lower Morton Street and access tracks. No evidence of asbestos containing materials were identified within AEC 1, AEC 2, AEC 3 or AEC 4 onsite. No anthropogenic materials were identified within AEC 2 onsite.

A total of 12 test pits were undertaken across the Site, the general subsurface conditions encountered included:

• The subsurface conditions comprised of sandy silt topsoil/fill which was underlain by gravelly clay and silty clay with clastic material, and extremely weathered sandstone and siltstone with trace clasts.

Overall, based on this assessment and the conceptual site model for the proposed development there are potential complete source-pathway-receptor linkages from aesthetic issue related to fly tipping (AEC 1), potential treated timber power pole butts within the electrical easement onsite (AEC 3) and materials imported during construction of Lower Morton Road and access tracks (AEC 4).

While contamination at a level warranting management or remediation was not identified, the following is recommended to meet industry best practice during development activities:

- Anthropogenic material from the suspected fly tipping should be removed from the Site prior to any vegetation clearance or earthworks activities.
- If these electrical power pole butts are to be removed offsite, the material should be assessed in accordance with Part 10 and Clause 101 of the Protection of the Environment Operations (Waste) Regulation 2014, where the NSW EPA has issued general immobilisation approvals by notice in the Gazette for treated timber power poles including Tanalith E, Copper-Chrome Arsenate (CCA) and Creosote treated timber waste.
- The unexpected finds protocol (attached as Appendix G) should be implemented during redevelopment
 to address any unidentified contamination that may be encountered during the proposed
 redevelopment works.



Figures





Preliminary Site Investigation Farnell St, Forbes NSW, Australia

Job No: EP3269 Date: 09-05-2025 Version: v1





Figure 1 - Site Location

Coordinate System: WGS84

Drawn By: MC Checked: LK

Scale of regional map not shown







Preliminary Site Investigation Farnell St, Forbes NSW, Australia

Job No: EP3269 Date: 09-05-2025 Version: v1



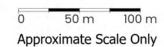


Figure 2 - Areas of Environmental Concern

Coordinate System: WGS 84

Scale of regional map not shown

Drawn By: MC Checked By: LK







Preliminary Site Investigation Farnell St, Forbes NSW, Australia

Job No: EP3269 Date: 09-05-2025 Version: v1



0 25 m 50 m Approximate Scale Only

Figure 3 - Sampling Locations

Coordinate System: WGS 84

Drawn By: MC Checked By: LK
Scale of regional map not shown





Analytical Tables

							TRH						TPH						ВТ	EXN			
				5 - C10 Fraction	5 - C10 Fraction minus BTEX (F1)	:10 - C16 Fraction	:10 - C16 Fraction minus Naphthalene (F2	.16 - C34 Fraction	:34 - C40 Fraction	.10 - C40 Fraction (sum)	C9 Fraction	10 - C14 Fraction	S - C28 Fraction	9 - C36 Fraction	.0 - C36 Fraction (sum)	anzene	oluene	hylbenzene	eta- & para-Xylene	tho-Xylene	otal Xylenes	ım of BTEX	aphthalene
				8	95	×	À	, ,	×	Ž	8	2	2	<u> </u>	2	Be	₽	置	Ĕ	, p	₽	Su	<u> </u>
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				10	10	50	50	100	100	50	10	50	100	100	50	0.2	0.5	0.5	0.5	0.5	0.5	0.2	1
	LS HILS Human Health, HIL A (Resid	•		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	man Health, HSL A & B (Low - High		o <1m - Fine Material	-	40	-	230	-	-	-	-	-	-	-	-	0.6	390	55	-	-	95	-	1
	ological, Urban Residential & Public			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	ological, Urban Residential & Publi			-	180	-	120	1300	5600	-	-	-	-	-	-	65	105	125	-	-	45	-	1
NEPM 2013 Manage	ement Limits Human Health, Reside	ential, parkland and public o	open space - Fine material	800	-	1000	-	3500	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field ID	Original Title	Depth	Sampled Date																				
NEPM	NEPM_0.1	0.1m	08-04-2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	TP01_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP02	TP02_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP03	TP03_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP04	TP04_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP05	TP05_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP06	TP06_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP07	TP07_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP08	TP08_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP09	TP09_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP10	TP10_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP11	TP11_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
TP12	TP12_0.1	0.1m	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1

This table does not represent the full analytical results, please refer to the laboratory results for full details.

* Assumes Chromium (VI)



Table 1 - Soil Analytical Results

				Heavy	Metals			
	Arsenic	Cadmium	Chromium*	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	5	1	2	5	5	0.1	2	5
NEPM 2013 HILS HILS Human Health, HIL A (Residential with garden/access)	100	20	100	6,000	300	40	400	7,400
M 2013 HSL Human Health, HSL A & B (Low - High Density Residential) - 0m to <1m - Fine Material	-	-	-	-	-	-	-	-
M 2013 EILS Ecological, Urban Residential & Public Open Space**	100	-	700	220	1,100	-	200	560
M 2013 ESLS Ecological, Urban Residential & Public Open Space - Fine Material	-	-	-	-	-	-	-	-
M 2013 Management Limits Human Health, Residential, parkland and public open space - Fine material	-	-	-	-	-	-	-	-

Field ID	Original Title	Depth	Sampled Date								
NEPM	NEPM_0.1	0.1m	08-04-2025	-	-	-	-	-	-	-	-
TP01	TP01_0.1	0.1m	08-04-2025	45	< 1	20	20	12	< 0.1	16	31
TP02	TP02_0.1	0.1m	08-04-2025	< 5	< 1	22	6	15	< 0.1	9	28
TP03	TP03_0.1	0.1m	08-04-2025	9	< 1	25	15	22	< 0.1	11	41
TP04	TP04_0.1	0.1m	08-04-2025	< 5	< 1	26	10	10	< 0.1	13	17
TP05	TP05_0.1	0.1m	08-04-2025	< 5	< 1	15	6	8	< 0.1	6	26
TP06	TP06_0.1	0.1m	08-04-2025	9	< 1	54	9	15	< 0.1	14	22
TP07	TP07_0.1	0.1m	08-04-2025	< 5	< 1	30	31	12	< 0.1	25	38
TP08	TP08_0.1	0.1m	08-04-2025	5	< 1	34	26	14	< 0.1	19	32
TP09	TP09_0.1	0.1m	08-04-2025	< 5	< 1	24	20	15	< 0.1	16	43
TP10	TP10_0.1	0.1m	08-04-2025	< 5	< 1	31	21	11	< 0.1	17	23
TP11	TP11_0.1	0.1m	08-04-2025	< 5	< 1	15	17	8	< 0.1	10	23
TP12	TP12_0.1	0.1m	08-04-2025	< 5	< 1	23	19	10	< 0.1	13	21

Notes:

This table does not represent the full analytical results, please refer to the laboratory results for full details.

* Assumes Chromium (VI)

EP3269

				PCB										P	AH									
				otal Polychlorinated biphenyls	Acenaphthene	Acenaphthylene	Anthracene	Senz(a)anthracene	3enzo(a)pyrene	3enzo(b+j)fluoranthene	senzo(g.h.i)perylene	3enzo(k)fluoranthene	chrysene	·luoranthene	luorene	ndeno(1.2.3.cd)pyrene	Vaphthalene (Ex SVOC)	henanthrene	yrene	ium of polycyclic aromatic hydrocarbons	Senzo(a)pyrene TEQ (LOR)	3enzo(a)pyrene TEQ (zero)	senzo(a)pyrene TEQ (half LOR)	Oibenz(a.h)anthracene
				ma/ka	ma/ka	ma/ka	mg/kg	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka
				mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Call, NEDRA 2012 LILLO	IIII C III. waa II aalah IIII A /Daa	:doubielibb conden /occos)		0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	HILS Human Health, HIL A (Resi		41 m. Fine Material	<u>1</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	3	3 3	5	
	in Health, HSL A & B (Low - Hig		<tm -="" fine="" material<="" th=""><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>-</th><th>4.70</th><th>-</th><th>-</th><th>-</th><th>-</th><th></th><th></th><th>-</th></tm>	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70	-	-	-	-			-
	gical, Urban Residential & Publ			-	-	-	-	-	1.4	-	-	-	-	-	-	-	170	-	-	-	-			
	ogical, Urban Residential & Pub			-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-			
INEPINI 2013 IVIAIIAGEIII	ent Limits Human Health, Resid	uentiai, parkianu anu public op	en space - rine material	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Field ID	Original Title	Depth	Sampled Date																					
NEPM	NEPM_0.1	0.1m	08-04-2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-
TP01	TP01_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP02	TP02_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP03	TP03_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP04	TP04_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP05	TP05_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP06	TP06_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP07	TP07_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP08	TP08_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP09	TP09_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP10	TP10_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP11	TP11_0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
TP12	TP12 0.1	0.1m	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5

Notes:

This table does not represent the full analytical results, please refer to the laboratory results for full details.

* Assumes Chromium (VI)

Table 1 - Soil Analytical Results

															Organ	ochlorine Pe	sticides											
										I					Organi		Sticiacs											
				ndrin ketone	um of Aldrin + Dieldrin	ılpha-Endosulfan	Heptachlor	1.4`-DDE	r.4`-DDD	indrin	Dieldrin	;amma-BHC - (Lindane)	Heptachlor epoxide	l.4`-DDT	oeta-Endosulfan	lelta-BHC	eta-BHC	ılpha-BHC	Aldrin	Hexachlorobenzene (HCB)	indosulfan sulfate	indosulfan (sum)	is-Chlordane	rans-Chlordane	otal Chlordane (sum)	ium of DDD + DDE + DDT	ndrin aldehyde	Methoxychlor
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2
Soil: NEPM 2013 HILS	S HILS Human Health, HIL A (Resid	ential with garden/access)		- 0.03	6	- 0.03	6	-	- 1	10	- 0.03	- 0.03	- 0.03	- 0.2	- 0.03	- 0.03	- 0.03	- 0.03	- 0.03	10	- 0.03	270	- 0.03	- 0.03	50	240	- 0.03	300
	nan Health, HSL A & B (Low - High		<1m - Fine Material	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ogical, Urban Residential & Public			-	-	-	-	-			-	-	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 ESLS Eco	logical, Urban Residential & Public	c Open Space - Fine Material		-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ment Limits Human Health, Reside			-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field ID	Original Title	Depth	Sampled Date																									
NEPM	NEPM 0.1	0.1m	08-04-2025	-	_	_	l -	_		- 1	_		l -	<u> </u>	_	Τ.	_			_		-		-	_	_	_	T -
TP01	TP01_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP02	TP02_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP03	TP03_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP04	TP04_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP05	TP05_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP06	TP06_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP07	TP07_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP08	TP08_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP09	TP09_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP10	TP10_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP11	TP11_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
TP12	TP12_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2

Notes:

This table does not represent the full analytical results, please refer to the laboratory results for full details.

* Assumes Chromium (VI)

Table 1 - Soil Analytical Results

												Organopho	osphorus pe	esticides												N	NEPM Screen	for Soil Clas	sification					
				nphos Methyl	meton-S-methyl	nethoate	ilon	namiphos	ıthion	ılathion	athion	athion-methyl	imphos-ethyl	onocrotophos	othiofos	omophos-ethyl	bophenothion	ortenvinphos orpyrifos-methyl	orpyrifos	ızinon	hlorvos	al Organic Carbon	u	ganic Matter	y (<2 m)	l Particle Density (Clay/Silt/Sand)	ion Exchange Capacity	hangeable Magnesium:	hangeable Calcium	hangeable Potassium	:hangeable Sodium	(CaCl2)	Value	ctrical Conductivity @ 25C
				Azi	De	<u> </u>	<u> </u>	- Fe	Fe	Σ̈́	Pai	Ьа	Ρ̈́	ž	P.	Br		5 5	<u>5</u>	Dia	ğ	ρ	<u>s</u>	ő	G	Soi	ğ	Ä	Ĕ	Ĕ	<u> </u>	Ψ	표	Ele
				mg/kg	mg/kg			mg/kg	mg/kg				mg/kg			mg/kg	mg/kg m	g/kg mg/			mg/kg	%	%	%	%		neq/100g n		neq/100g r				ph	us/cm
				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.05	0.05	.05 0.0	0.05	0.05	0.05	0.5	0.005	0.5	1	0.01	0.2	0.2	0.2	0.2	0.2	0.1	0.1	1
	6 HILS Human Health, HIL A (Resid			-	-	-	-	-	-		-				-	-	-	-	160	-	-	-		-	-	-	-	-	-	-	-	-	-	
	nan Health, HSL A & B (Low - High		<1m - Fine Material	-	-	-	-	-	-		-				-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	ogical, Urban Residential & Public			-	-	-	-	-	-		-				-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	logical, Urban Residential & Public			-	-	-	-	-	-		-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PM 2013 Manager	ment Limits Human Health, Reside	ential, parkland and public o	pen space - Fine material	-	-	-	-	-	-		-	- -	ŀ		-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-	-	-	
eld ID	Original Title	Depth	Sampled Date																															
PM	NEPM 0.1	0.1m	08-04-2025	-	-	-	-	-	-	- I	-	-	-	-	-	-	-		-	-	-	< 0.5	3.88	0.7	53	2.62	12.5	7.8	2	0.2	2.5	9	9.2	282
)1	TP01_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
02	TP02 0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
03	TP03_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
	TP04_0.1	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	05 < 0.05	< 0.05	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
)4							< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	05 < 0.05	< 0.05	< 0.05	_	_	_	_	-	- +	-	_	-	-	_	-	-
	_	0.1m	08-04-2025	< 0.05	< 0.05	< 0.05	\ U.UJ																						I					
05	TP05_0.1			< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05 <	0.05 < 0.0	0.05	< 0.05	< 0.05	- 1	-	-	- 1	-	-	_	_	_	-	_	-	_
)5)6	TP05_0.1 TP06_0.1	0.1m	08-04-2025		< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.2	< 0.2	< 0.05 < 0.05	\ U.Z	₹ 0.05	< 0.05 < 0.05			10.05	< 0.05 < 0.05	₹ 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
05 06 07	TP05_0.1 TP06_0.1 TP07_0.1	0.1m 0.1m	08-04-2025 08-04-2025	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05			< 0.05 < 0.05 < 0.05		< 0.2 < 0.2 < 0.2		< 0.2	< 0.05	< 0.05	< 0.05 <).05 < 0.0	0.05		< 0.05	- -	- - -	- -	-		- - -	-			-	- - -	-	
5 6 7 8	TP05_0.1 TP06_0.1 TP07_0.1 TP08_0.1	0.1m 0.1m 0.1m	08-04-2025 08-04-2025 08-04-2025	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < < 0.05 <	0.05 < 0.0	05 < 0.05 05 < 0.05	< 0.05	< 0.05 < 0.05	- - -	- - -	-	-	-	- - -			-	- - -	-	-	-
05 06 07 08 09	TP05_0.1 TP06_0.1 TP07_0.1 TP08_0.1 TP09_0.1	0.1m 0.1m 0.1m 0.1m	08-04-2025 08-04-2025 08-04-2025 08-04-2025	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.2	< 0.2 < 0.2	< 0.05 < 0.05	< 0.2 < 0.2 < 0.2	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < < 0.05 < < 0.05 < < 0.05 <	0.05 < 0.0 0.05 < 0.0 0.05 < 0.0	05 < 0.05 05 < 0.05 05 < 0.05 05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05 < 0.05	-	- - -		-	-	-	- - -	-	-	- - -	-	-	-
P04 P05 P06 P07 P08 P09 P10	TP05_0.1 TP06_0.1 TP07_0.1 TP08_0.1	0.1m 0.1m 0.1m	08-04-2025 08-04-2025 08-04-2025	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < < 0.05 < < 0.05 < < 0.05 < < 0.05 <	0.05 < 0.0	15 < 0.05 15 < 0.05 15 < 0.05 15 < 0.05 15 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05			-	-	-	- - - -	- - - -		-	- - - -	-	-	-

Notes:

This table does not represent the full analytical results, please refer to the laboratory results for full details.

* Assumes Chromium (VI)



			TRH						TPH						ВТ	EXN			
C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1)	>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2	>C16 - C34 Fraction	>C34 - C40 Fraction	TRH >C10-C40 (total)*	C6 - C9 Fraction	TRH C10-C14	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene	Xylenes - Total*	Sum of BTEX	Naphthalene
mg/kg 10	mg/kg 10	mg/kg 50	mg/kg 50	mg/kg 100	mg/kg 100	mg/kg 100	mg/kg 10	mg/kg 20	mg/kg 100	mg/kg 100	mg/kg 50	mg/kg 0.1	mg/kg 0.1	mg/kg 0.1	mg/kg 0.2	mg/kg 0.1	mg/kg 0.3	mg/kg 0.2	mg/kg 0.5
30%	30%	50%	50%	30%	30%	50%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Field ID	Original Title	Sampled Date																				
TP01 (parent)	TP01_0.1	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
QA01 (duplicate)	QA01	08-04-2025	< 10	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 50	< 100	< 100	< 50	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
RPD			0%	0%	00/	00/	00/	Ω%	0%	00/	00/	0%	Ω%	∩%	00/	Λ0/	00/	00/	00/	00/	Λ%	0%
			0/0	070	U%	U%	U70	0/0	U/0	U%	0/0	070	0/0	U/0	0%	U70	U%	0%	U%	0%	U/0	070
QA02 (triplicate)	QA02	08-04-2025	< 20	< 20	< 50	< 50	< 100	< 100	< 100	< 20	< 20	< 50	< 50	< 50	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.3	-	< 0.5

This table does not represent the full analytical results, please refer to the laboratory results for full details.



Table 2 - RPD % Analytical Results

			Heavy	Metals	·		
Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2	0.4	2	5	5	0.1	2	5

Field ID	Original Title	Sampled Date								
TP01 (parent)	TP01_0.1	08-04-2025	45	< 1	20	20	12	< 0.1	16	31
QA01 (duplicate)	QA01	08-04-2025	39	< 1	27	18	11	< 0.1	16	29
RPD			14.29%	0%	29.79%	10.53%	8.7%	0%	0%	6.67%
QA02 (triplicate)	QA02	08-04-2025	81	< 0.4	19	34	14	< 0.1	18	38
RPD			57.14%	0%	5.13%	51.85%	15.38%	0%	11.76%	20.29%

notes:

This table does not represent the full analytical results, please refer to the laboratory results for fu



РСВ	T									P/	λΗ									1
Total Polychlorinated biphenyls	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g.h.i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Fluorene	Indeno(1.2.3.cd)pyrene	Naphthalene (Ex SVOC)	Phenanthrene	Pyrene	Sum of polycyclic aromatic hydrocarbons	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Dibenz(a.h)anthracene
mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	50%	30%	50%	30%

Field ID	Original Title	Sampled Date																					
TP01 (parent)	TP01_0.1	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
QA01 (duplicate)	QA01	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
RPD			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
QA02 (triplicate)	QA02	08-04-2025	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	0.6	< 0.5
RPD			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

This table does not represent the full analytical results, please refer to the laboratory results for fu



											Organo	ochlorine Pes	ticides											
Endrin ketone	Sum of Aldrin + Dieldrin	s alpha-Endosulfan	, Heptachlor	, 4.4`-DDE	, 4.4`-DDD	, Endrin	Dieldrin	gamma-BHC - (Lindane)	Heptachlor epoxide	4.4'-DDT	beta-Endosulfan	. delta-BHC	. beta-BHC	alpha-BHC	Aldrin	Hexachlorobenzene (HCB)	Endosulfan sulfate	, Endosulfan (sum)	; cis-Chlordane	trans-Chlordane	, Total Chlordane (sum)	Sum of DDD + DDE + DDT	, Endrin aldehyde	, Methoxychlor
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Field ID	Original Title	Sampled Date																									
TP01 (parent)	TP01_0.1	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
QA01 (duplicate)	QA01	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2
RPD			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
QA02 (triplicate)	ΩΔΩ2	08-04-2025	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.1	< 0.05	< 0.05	< 0.05
QAUZ (triplicate)	QA02	00 0 1 2023	10100		. 0.00	. 0.00																					

This table does not represent the full analytical results, please refer to the laboratory results for fu



[Organop	hosphorus p	esticides								
	Azinphos Methyl	Demeton-S-methyl	Dimethoate	Ethion	Fenamiphos	Fenthion	Malathion	Parathion	Parathion-methyl	Pirimphos-ethyl	Monocrotophos	Prothiofos	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos-methyl	Chlorpyrifos	Diazinon	Dichlorvos
L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Field ID	Original Title	Sampled Date																			
TP01 (parent)	TP01_0.1	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
QA01 (duplicate)	QA01	08-04-2025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
RPD			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
QA02 (triplicate)	QA02	08-04-2025	< 0.2	-	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	-	< 2	-	-	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
RPD			0%		00/	00/		00/	00/	00/	0%		0%				0%	00/	0%	00/	Ω%

This table does not represent the full analytical results, please refer to the laboratory results for fu



			ВТЕХ	(N			
Benzene	Toluene	Ethylbenzene	meta- & para-Xylene	ortho-Xylene	Total Xylenes	Sum of BTEX	Naphthalene
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.2	0.5	0.5	0.5	0.5	0.5	0.2	1

Field ID	Original Title	Sampled Date	QC Sample Type								
TB01	TB01	04-04-2025	Normal	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1
Trip Spike	Trip Spike	04-04-2025	Normal	< 0.2	6	9	10.1	3.9	14	29	< 1
TSC	TSC	04-04-2025	Normal	< 0.2	6.2	9.4	10.7	4	14.7	30.3	< 1
		% Recovery			97%	96%	94%	98%	95%	96%	<1

This table does not represent the full analytical results, please refer to the laboratory results for full details.



:10 - C16 Fraction minus Naphthalene (F2)	.10 - C16 Fraction	:10 - C40 Fraction (sum)	.16 - C34 Fraction	34 - C40 Fraction	enaphthene	enaphthylene	ıthracene	senic	inzene	inzo(a)pyrene	inz(a)anthracene	ınzo(a)pyrene TEQ (zero)	:nzo(b+j)fluoranthene
>C10	×C1(>C10	>C16	>C34	Acer	Acer	Anth	Arse	Benz	Benz	Benz	Benz	Benz
mg/L	mg/L	mg/L	mg/L	mg/L	μg/L	μg/L	μg/L	mg/L	μg/L	μg/L	μg/L	μg/L	μg/L
0.1	0.1	0.1	0.1	0.1	1	1	1	0.001	1	0.5	1	0.5	1

Field ID	Original Title	Sampled Date														
RQ01	RQ01	08-04-2025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 1	< 0.001	< 1	< 0.5	< 1	< 0.5	< 1

This table does not represent the full analytical results, please refer to the laboratory results for full details.



Benzo(g.h.i)perylene	Benzo(k)fluoranthene	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C10 Fraction minus BTEX (F1)	C6 - C10 Fraction	C6 - C9 Fraction	Cadmium	Chromium	Chrysene	Copper	Dibenz(a.h)anthracene
μg/L	μg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μg/L	mg/L	μg/L
1	1	0.05	0.05	0.1	0.05	0.02	0.02	0.02	0.0001	0.001	1	0.001	1

Field ID	Original Title	Sampled Date													
RQ01	RQ01	08-04-2025	< 1	< 1	< 0.05	< 0.1	< 0.05	< 0.02	< 0.02	< 0.02	< 0.0001	< 0.001	< 1	< 0.001	< 1

This table does not represent the full analytical results, please refer to the laboratory results for for



Ethylbenzene	Fluoranthene	Fluorene	Indeno(1.2.3.cd)pyrene	Lead	Mercury	Naphthalene (Ex SVOC)	Naphthalene	Nickel	Sum of polycyclic aromatic hydrocarbons	Phenanthrene	Pyrene	Toluene	Sum of BTEX
μg/L	μg/L	μg/L	μg/L	mg/L	mg/L	μg/L	μg/L	mg/L	μg/L	μg/L	μg/L	μg/L	mg/L
2	1	1	1	0.001	0.0001	1	5	0.001	0.5	1	1	2	0.001

Field ID	Original Title	Sampled Date													
RQ01	RQ01	08-04-2025	< 2	< 1	< 1 < 1	< 0.001	< 0.0001	< 1	< 5	< 0.001	< 0.5	< 1	< 1	< 2	< 0.001

This table does not represent the full analytical results, please refer to the laboratory results for full



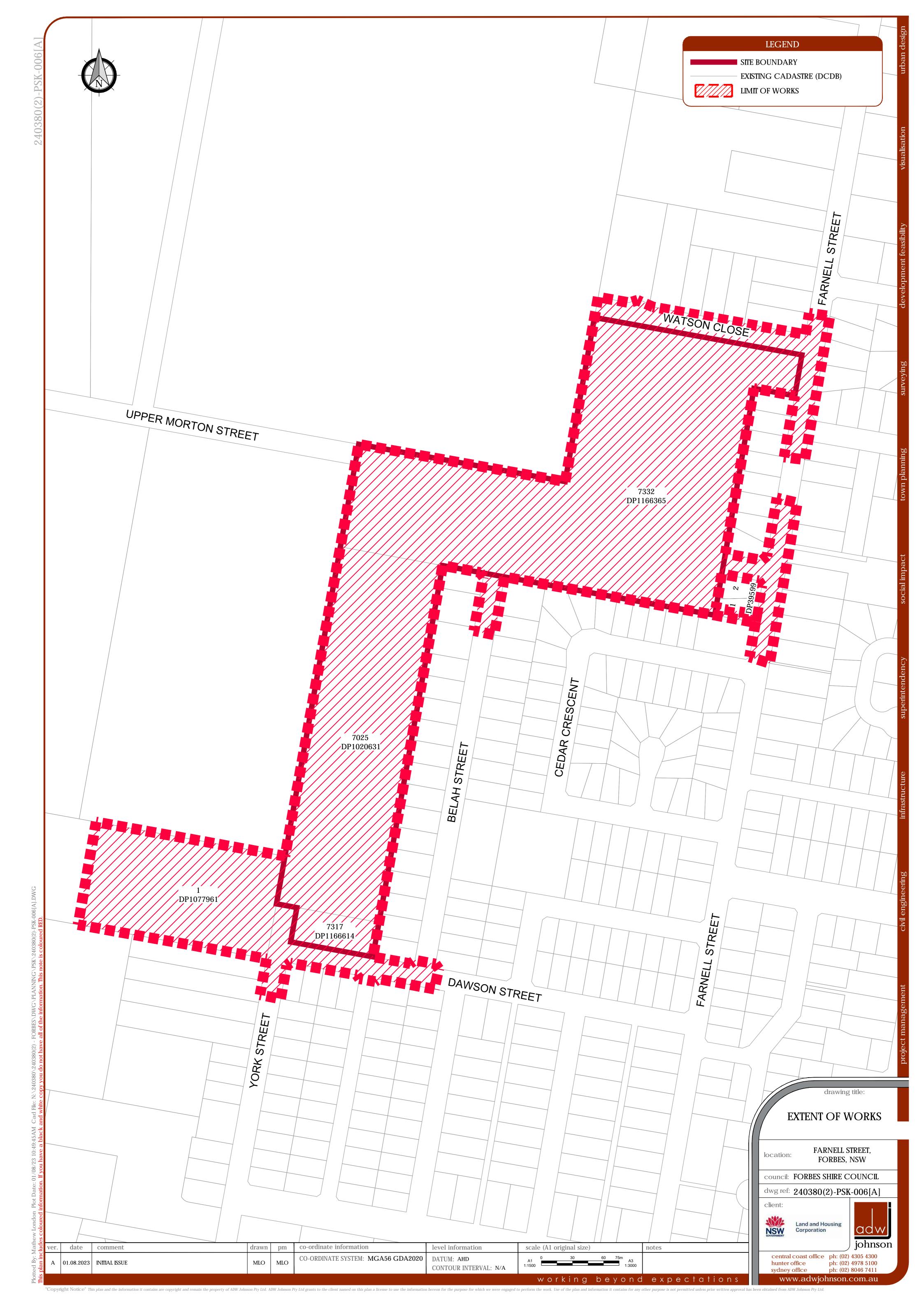
meta- & para-Xylene	ortho-Xylene	Total Xylenes	Zinc
μg/L	μg/L	μg/L	mg/L
2	2	2	0.005

Field ID	Original Title	Sampled Date				
RQ01	RQ01	08-04-2025	< 2	< 2	< 2	< 0.005

This table does not represent the full analytical results, please refer to the laboratory results for fu



Appendix A PROPOSED DEVELOPMENT PLANS





Appendix B LOTSEARCH (2023)



Date: 26 Jul 2023 12:19:12 Reference: LS046213 EP

Address: Farnell Street, Forbes, NSW 2300

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

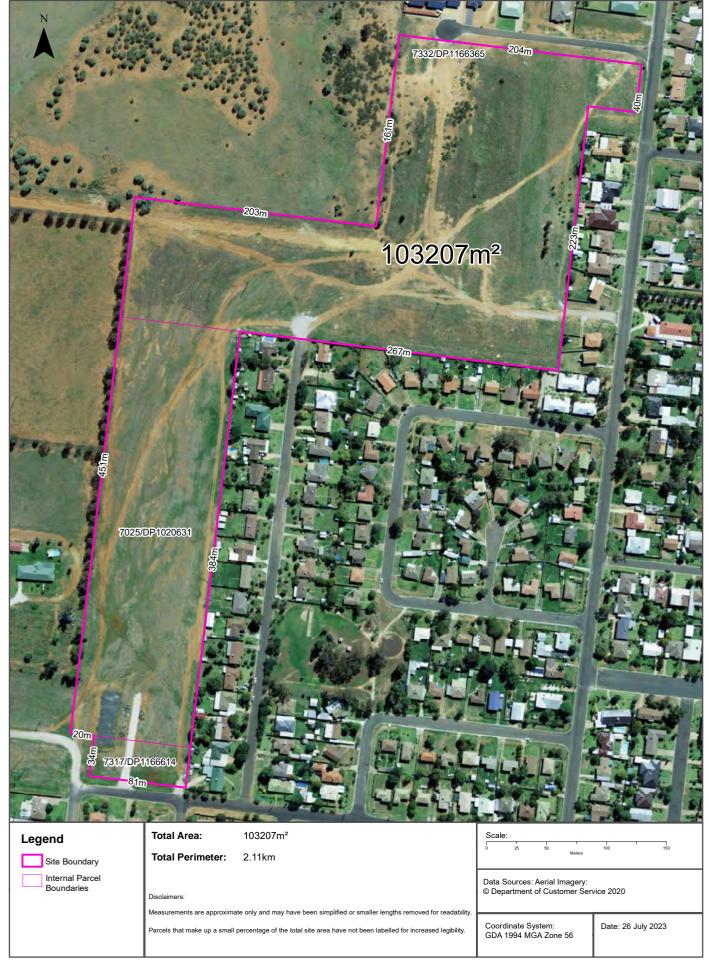
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	17/05/2023	17/05/2023	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	14/06/2023	18/05/2023	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	28/06/2023	28/06/2023	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	10/05/2023	14/07/2021	Quarterly	1000m	0	0	0
Notices under the POEO Act 1997	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	14/06/2023	23/09/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	09/05/2023	09/05/2023	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	16/06/2023	02/09/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	09/06/2023	09/06/2023	Monthly	1000m	0	0	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	09/06/2023	09/06/2023	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	09/06/2023	09/06/2023	Monthly	1000m	0	0	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	8	13
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	20	20
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	15
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	1
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	4
Major Easements	NSW Department of Customer Service - Spatial Services	23/05/2023	23/05/2023	Quarterly	1000m	1	2	6
State Forest	Forestry Corporation of NSW	16/08/2022	14/08/2022	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	16/02/2023	31/12/2022	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	29/08/2022	19/08/2019	As required	1000m	1	1	2
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	09/05/2023	23/02/2018		1000m	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	0	60
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	1	2	4
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	1
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	18/08/2022	27/07/2020	Annually	1000m	1	1	2
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	02/06/2023	12/05/2023	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	15/05/2023	15/05/2023	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	1	2	2
Mining Title Applications	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	10/05/2023	10/05/2023	Monthly	1000m	13	15	15
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	02/06/2023	16/12/2022	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	02/06/2023	26/05/2023	Monthly	1000m	1	2	16
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/10/2022	01/07/2022	Quarterly	1000m	0	0	1
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	02/06/2023	26/05/2023	Monthly	1000m	0	0	1
Bush Fire Prone Land	NSW Rural Fire Service	23/06/2023	23/06/2023	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Planning and Environment	26/05/2023	12/12/2022	Quarterly	1000m	3	7	36
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	2	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	2	6
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	13/06/2023	13/06/2023	Weekly	10000m	-	-	-

Site Diagram

Farnell Street, Forbes, NSW 2300





Contaminated Land

Farnell Street, Forbes, NSW 2300

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Contaminated Land

Farnell Street, Forbes, NSW 2300

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Contaminated Land

Farnell Street, Forbes, NSW 2300

EPA Notices

Penalty Notices, s.91 & s.92 Clean up Notices and s.96 Prevention Notices within the dataset buffer:

Number	Туре	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
N/A	No records in buffer										

NSW EPA Notice Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

Farnell Street, Forbes, NSW 2300

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

PFAS Investigation & Management Programs

Farnell Street, Forbes, NSW 2300

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Farnell Street, Forbes, NSW 2300

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Farnell Street, Forbes, NSW 2300

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- · Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

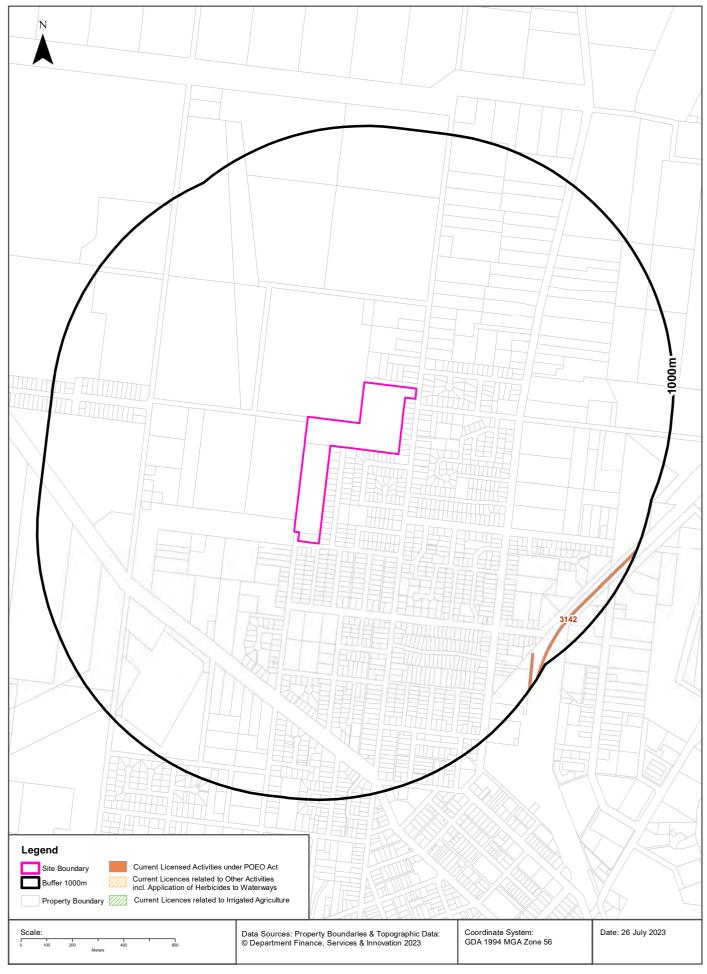
Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

Farnell Street, Forbes, NSW 2300





EPA Activities

Farnell Street, Forbes, NSW 2300

Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

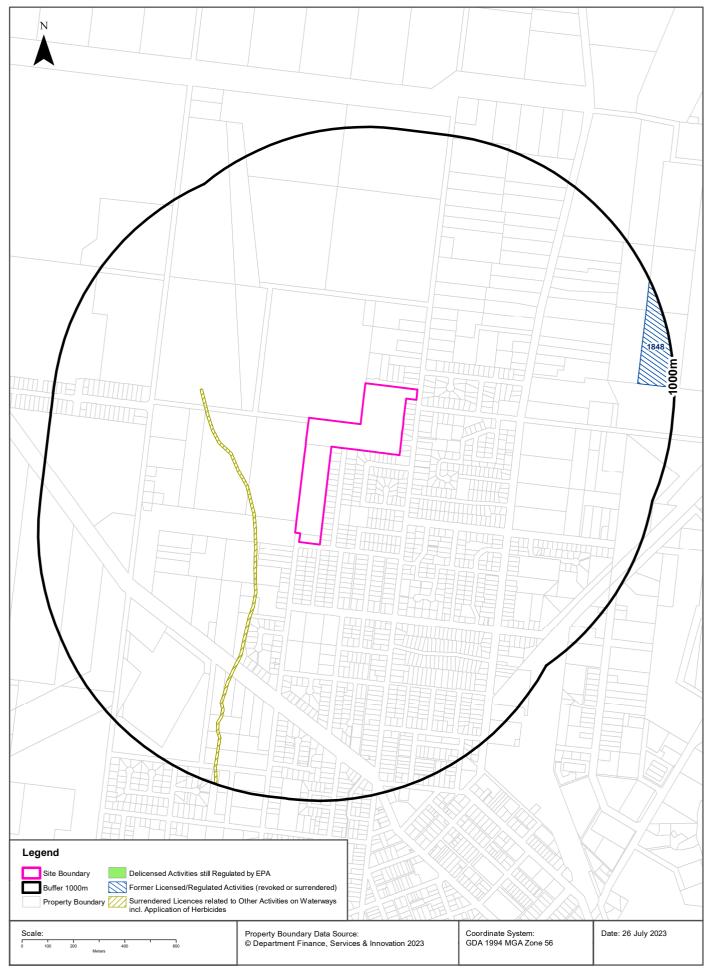
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
3142	AUSTRALIAN RAIL TRACK CORPORATION LIMITED		AUSTRALIAN RAIL TRACK CORPORATION (ARTC) NETWORK, SYDNEY, NSW 2001		Railway systems activities	Network of Features	914m	South East

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Farnell Street, Forbes, NSW 2300





EPA Activities

Farnell Street, Forbes, NSW 2300

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

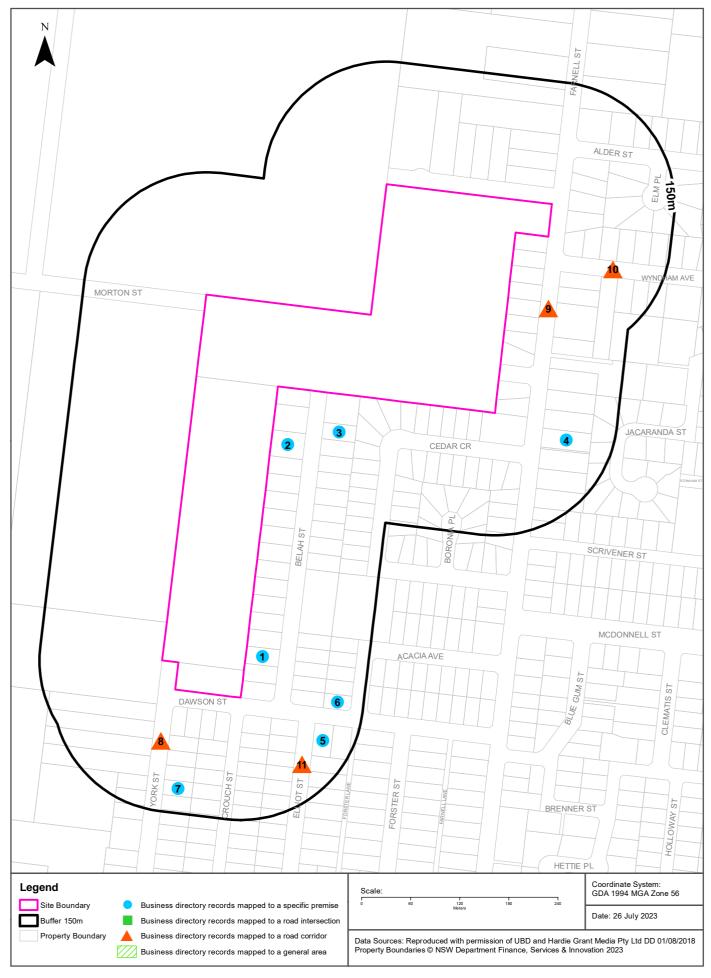
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	149m	South West
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	149m	South West
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	149m	South West
1848	SWIFT AUSTRALIA (SOUTHERN) PTY LIMITED	NEWELL HIGHWAY, FORBES, NSW 2871	Surrendered	11/09/2000	Rendering or fat extraction	Premise Match	857m	East
1848	SWIFT AUSTRALIA (SOUTHERN) PTY LIMITED	NEWELL HIGHWAY, FORBES, NSW 2871	Surrendered	11/09/2000	Slaughtering or processing animals	Premise Match	857m	East

Former Licensed Activities Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

Historical Business Directories

Farnell Street, Forbes, NSW 2300





Historical Business Directories

Farnell Street, Forbes, NSW 2300

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	CARRIERS &/OR CARTAGE CONTRACTORS	Wall R. K. & M., 6 Belah St., Forbes 2871	124781	1991	Premise Match	0m	South
	CARRIERS &/OR CARTAGE CONTRACTORS.	Wall, R. K. & M., 6 Belah St., Forbes 2871	129899	1982	Premise Match	0m	South
2	BUILDERS &/OR BUILDING CONTRACTORS.	Messrs. Hunter & Hodder, 30 Belah St., Forbes 2871	129830	1982	Premise Match	0m	South West
3	BRICKLAYERS	Redfern. T., 33 Belah St., Forbes 2871	118778	1991	Premise Match	37m	South
4	BUS OPERATORS	Henderson. D., 197 Farnell St., Forbes 2871	118821	1991	Premise Match	61m	East
	MOTOR BUS SERVICES.	Henderson, D., 197 Farrell St., Forbes 2871	130195	1982	Premise Match	61m	East
5	PLUMBERS, GASFITTERS & DRAINLAYERS	Neill, R. K. & M. J., 3 Dawson St., Forbes 2871	551205	1970	Premise Match	96m	South
	TANK & TANKSTAND MFRS. &/OR DISTS.	Neill, R. K. & M. J., 3 Dawson St., Forbes 2871	551319	1970	Premise Match	96m	South
6	BOTTLED GAS - SUPPLIERS &/OR RE-FILLERS	Crocker D. C & L. G., 1 Acacia Ave., Forbes 2871	118768	1991	Premise Match	101m	South
	PLUMBERS &/OR GASFITTERS	Crocker D. C. & L G., 1 Acacia Ave., Forbes 2871	118901	1991	Premise Match	101m	South
	GAS APPLIANCES SHOWROOMS	Crocker D. C. & L. G., 1 Acacia Ave., Forbes 2871	124942	1991	Premise Match	101m	South
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Crocker. J., 1 Acacia Ave., Forbes 2871	130309	1982	Premise Match	101m	South
7	BUILDERS &/OR BUILDING CONTRACTORS	Taylor. R., 153 York St., Forbes 2871	118810	1991	Premise Match	111m	South

Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
8	SIGNWRITERS	Forbes Palming Service., York St., Forbes 2871	118988	1991	Road Match	0m
	BRICKLAYERS	Messrs. Sly & Dodds., 295 York St., Forbes 2871	118776	1991	Road Match	0m
	FURNITURE REMOVALISTS &/OR STORAGE.	Griggs, Kevin Removals. 64 York St., Forbes 2871	130009	1982	Road Match	0m
9	CARRIERS &/OR CARTAGE CONTRACTORS.	Hurford, N. C., Farnell St., Forbes 2871	129886	1982	Road Match	0m
	SOFT DRINK &/OR CORDIAL MFRS&/OR DISTS.	Lachlan Valley Cordials, 22 Farnell St., Forbes 2871	130389	1982	Road Match	0m
	SCHOOLS &/OR COLLEGES - PRIVATE .&/OR PUBLIC.	North Forbes Convent, Farnell St., Forbes 2871	130373	1982	Road Match	0m
	PLUMBERS, GASFITTERS & DRAINLAYERS	Coles, N. W., Farnell St., Forbes 2871	551203	1970	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Hurford, N. C., Farnell St., Forbes 2871	550800	1970	Road Match	0m
	SOFT DRINKS & CORDIALS MFRS.	Lachlan Valley Cordials, 22 Farnell St., Forbes 2871	551263	1970	Road Match	0m
	BRICKLAYERS & BRICKLAYING CONTRACTORS	Moriarty, W., Farnell St., Forbes 2871	550734	1970	Road Match	0m
	PLASTERERS-(SOLID) & PLASTERING CONTRACTORS	Moriarty, W., Farnell St., Forbes 2871	551200	1970	Road Match	0m
	SCHOOLS & COLLEGES- PRIVATE & PUBLIC	North Forbes Convent, Farnell St., Forbes 2871	551245	1970	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Carroll, Joe, Farnell St., Forbes	201704	1961	Road Match	0m
	MIXED BUSINESSES	Parslow, J. E, and L. M., Farnell St., Forbes	201984	1961	Road Match	0m
	PAINTERS, PAPERHANGERS & DECORATORS	Barter, W. J., Farnell St., Forbes	179842	1950	Road Match	0m
10	LOCAL BODIES	Central Tablelands County Council., Wyndham Ave., Forbes 2871	125084	1991	Road Match	26m
	SCHOOLS &/OR COLLEGES- PRIVATE &/OR PUBLIC	Forbes High School., Wyndham Ave., Forbes 2871	118967	1991	Road Match	26m
	BUTCHERS - RETAIL.	Belcher, A., Wyndham Ave., Forbes 2871	129847	1982	Road Match	26m
	LOCAL BODIES.	Central Tablelands County Council, Wyndham Ave., Forbes 2871	130128	1982	Road Match	26m
11	MILK VENDORS	Allen, N., Elliott St., Forbes 2871	551054	1970	Road Match	77m

Historical Business Directories

Farnell Street, Forbes, NSW 2300

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					













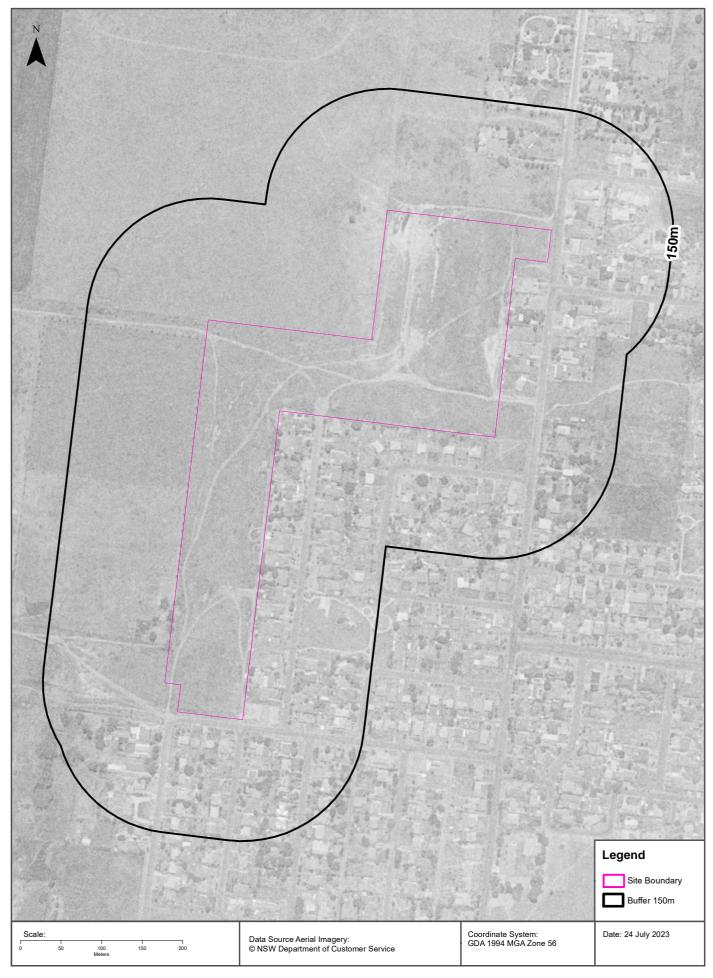




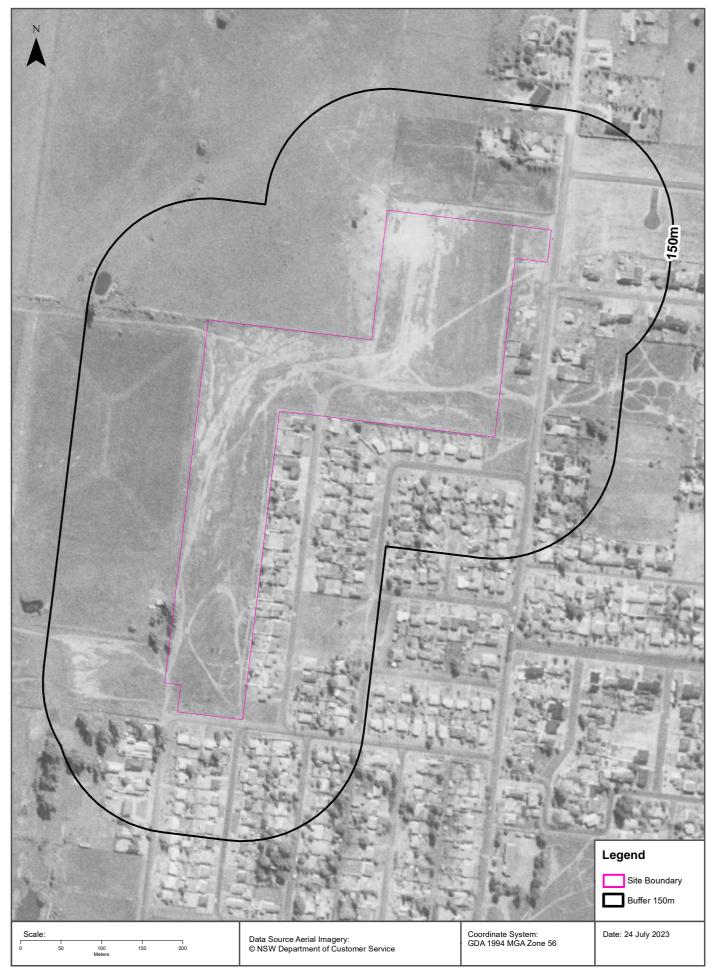




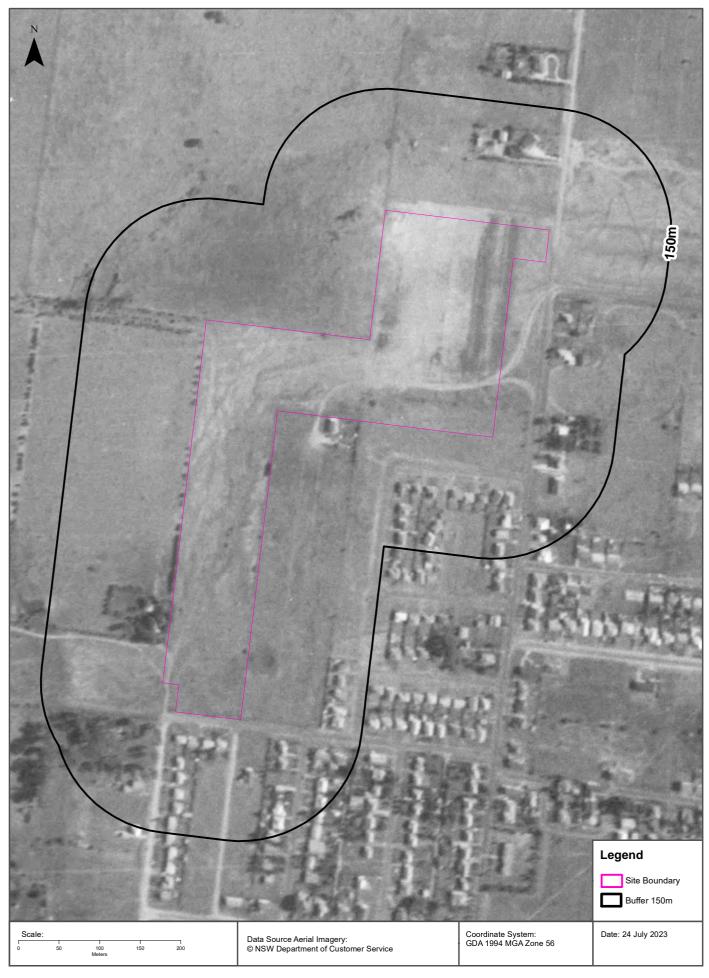








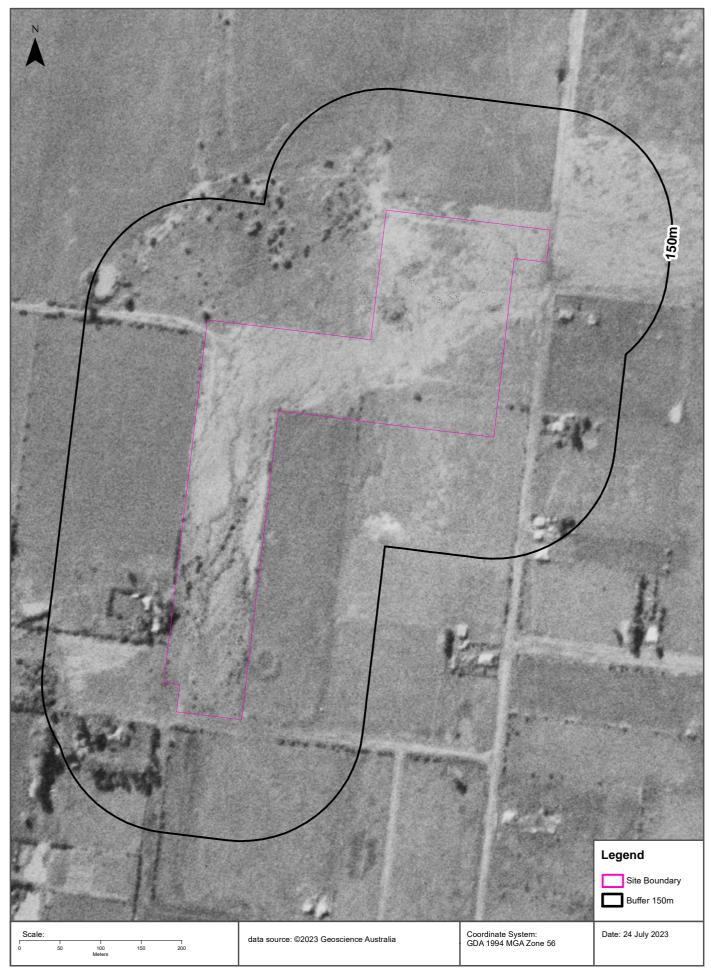






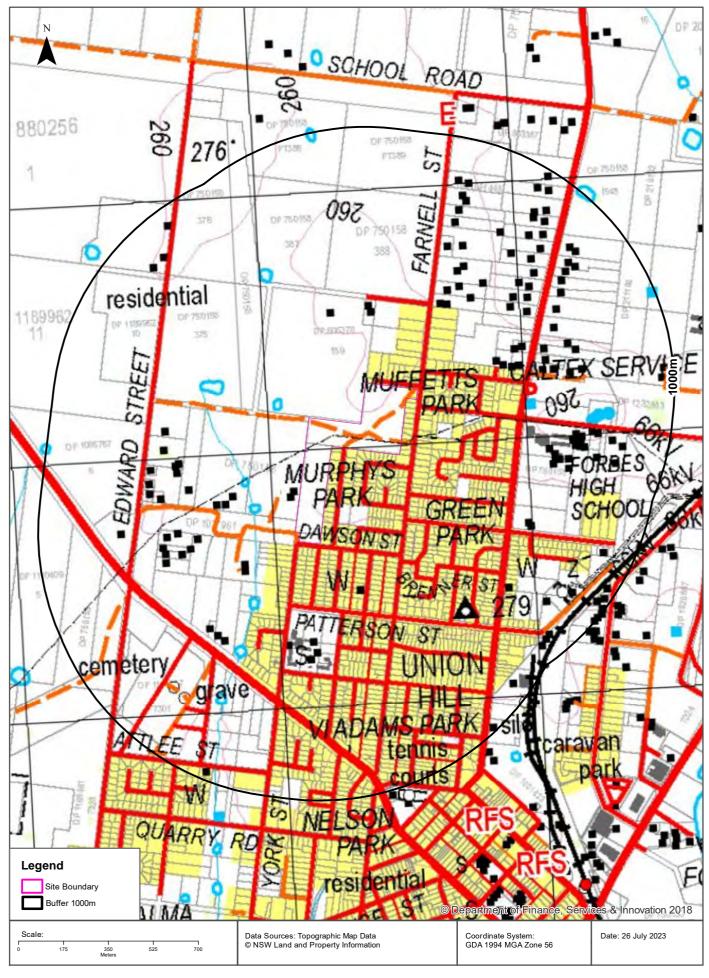




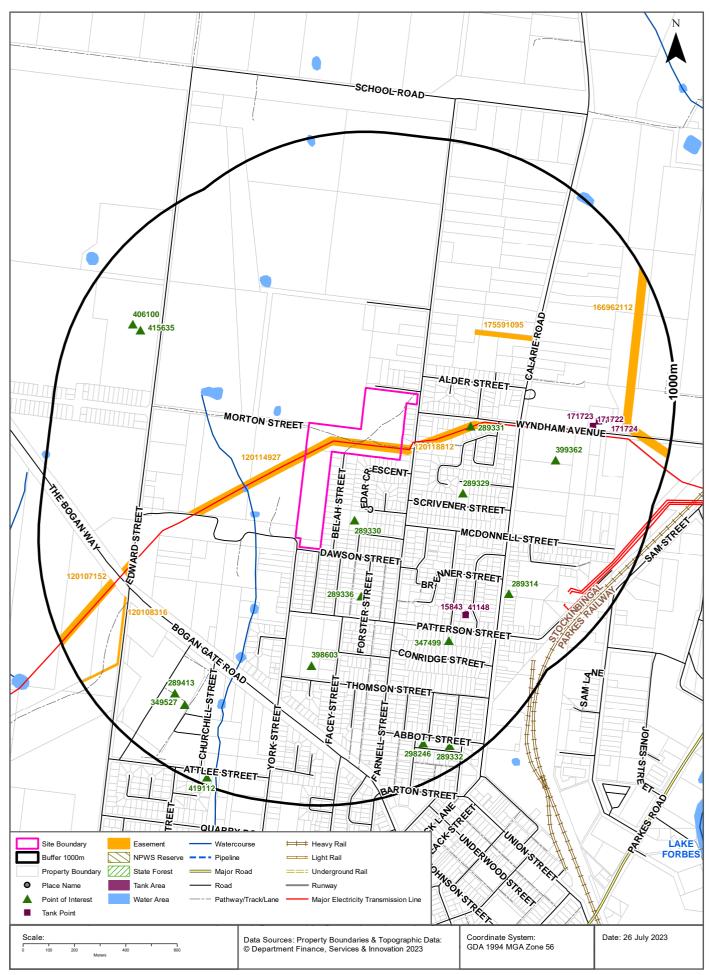


Topographic Map 2015









Farnell Street, Forbes, NSW 2300

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
289330	Park	MURPHYS PARK	119m	South
289331	Park	MUFFETTS PARK	226m	East
289336	Place Of Worship	CHRISTIAN CHURCH	243m	South
289329	Park	GREEN PARK	277m	East
398603	Primary School	FORBES NORTH PUBLIC SCHOOL	454m	South
399362	High School	FORBES HIGH SCHOOL	582m	East
347499	Mountain Like	UNION HILL	615m	South East
289314	Place Of Worship	Place Of Worship	672m	South East
289413	Cemetery	FORBES CEMETERY	749m	South West
415635	Retirement Village	JEMALONG RESIDENTIAL VILLAGE	750m	North West
349527	Grave	BEN HALLS GRAVE	760m	South West
406100	Nursing Home	CATHOLIC HEALTHCARE JEMALONG RESIDENTIAL VILLAGE	786m	North West
298246	Child Care Centre	FORBES PRE-SCHOOL	856m	South
289332	Park	VI ADAMS PARK	918m	South
419112	Place Of Worship	BAPTIST CHURCH	969m	South West

Topographic Data Source: © Land and Property Information (2015)

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Farnell Street, Forbes, NSW 2300

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
15	Water	Operational		01/05/2020	610m	South East

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
41148	Water	Feature on Previous LPI Tank Area Supply		27/03/2009	622m	South East
171722	Water	Operational		27/03/2009	691m	East
171723	Water	Operational		27/03/2009	713m	East
171724	Water	Operational		27/03/2009	751m	East

Tanks Data Source: © Land and Property Information (2015)

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Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120118812	Primary	Undefined		0m	On-site
120114927	Primary	Undefined		0m	West
175591095	Primary	Right of way	15m	324m	North East
120107152	Primary	Undefined		647m	South West
120108316	Primary	Undefined		700m	South West
166962112	Primary	Electricity	30 Wide	805m	East

Easements Data Source: © Land and Property Information (2015)

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Farnell Street, Forbes, NSW 2300

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018) Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Parks and Wildlife Service Reserves

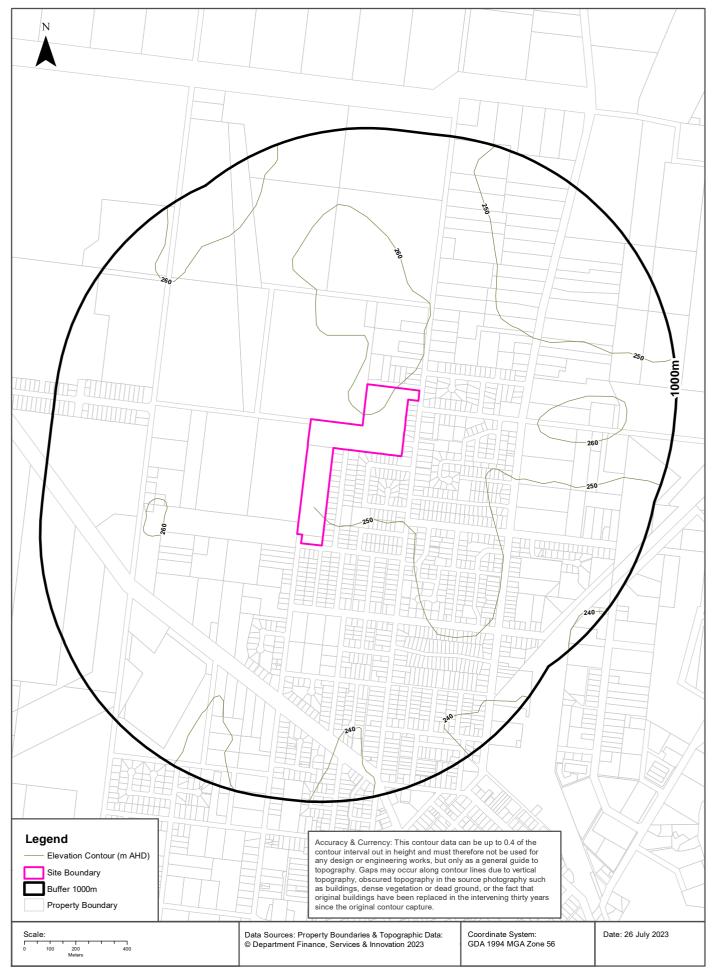
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018) Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Elevation Contours (m AHD)





Hydrogeology & Groundwater

Farnell Street, Forbes, NSW 2300

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Fractured or fissured, extensive aquifers of low to moderate productivity	0m	On-site
Porous, extensive highly productive aquifers	782m	South

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

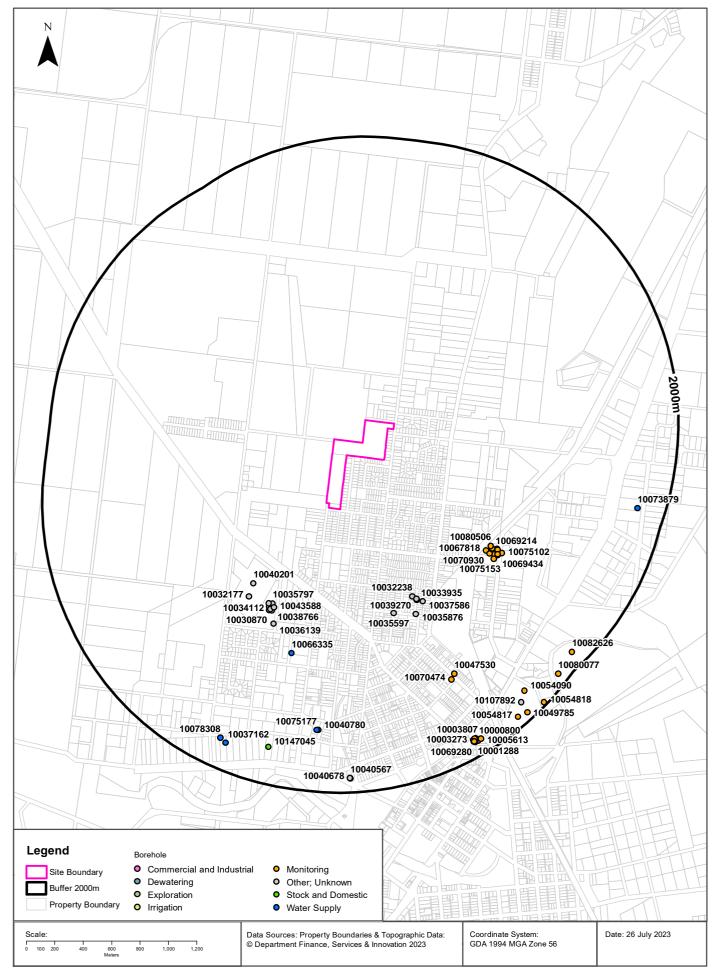
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibitio Area No.	n Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source: NSW Department of Primary Industries

Groundwater Boreholes





Hydrogeology & Groundwater

Farnell Street, Forbes, NSW 2300

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation		Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10040201	GW965674	Unknown	Unknown			244.18	AHD				751m	South West
10035797	GW965678	Unknown	Unknown				AHD				782m	South West
10042770	GW965684	Unknown	Unknown				AHD				794m	South West
10032238	GW965681	Unknown	Unknown				AHD				799m	South
10043588	GW965676	Unknown	Unknown			241.62	AHD				801m	South West
10034112	GW965680	Unknown	Unknown				AHD				809m	South West
10041747	GW965683	Unknown	Unknown				AHD				814m	South West
10042415	GW965679	Unknown	Unknown				AHD				823m	South West
10035597	GW965689	Unknown	Unknown				AHD				825m	South
10038766	GW965677	Unknown	Unknown			241.62	AHD				825m	South West
10039270	GW965690	Unknown	Unknown				AHD				832m	South East
10030870	GW965682	Unknown	Unknown				AHD				834m	South West
10033935	GW965691	Unknown	Unknown				AHD				839m	South East
10032177	GW965675	Unknown	Unknown			244.43	AHD				841m	South West
10037586	GW965692	Unknown	Unknown			242.49	AHD				873m	South East
10036139	GW965687	Unknown	Unknown				AHD				905m	South West
10035876	GW965688	Unknown	Unknown				AHD				914m	South
10067818	GW702759	Monitoring	Functional	12/07/2005	5.20		AHD				962m	South East
10080506	GW702753	Monitoring	Functional	14/07/2005	5.20		AHD				967m	South East
10069835	GW702754	Monitoring	Functional	14/07/2005	5.20		AHD				987m	South East
10070930	GW702758	Monitoring	Functional	12/07/2005	5.20		AHD				995m	South East
10069214	GW702756	Monitoring	Functional	13/07/2005	5.20		AHD				997m	South East
10069747	GW702755	Monitoring	Functional	13/07/2005	5.20		AHD				1013m	South East
10066342	GW702757	Monitoring	Functional	13/07/2005	5.20		AHD				1020m	South East
10073197	GW700888	Monitoring	Proposed	24/04/1991	6.40		AHD			2.20	1021m	South East
10072479	GW702634	Monitoring	Functional	18/07/2005	5.20		AHD				1031m	South East
10075153	GW700890	Monitoring	Proposed	24/04/1991	6.50		AHD			3.00	1041m	South East
10079423	GW700889	Monitoring	Proposed	24/04/1991	6.50		AHD			3.10	1041m	South East
10069434	GW702635	Monitoring	Functional	18/07/2005	5.20		AHD				1048m	South East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10066335	GW704777	Water Supply	Functioning	23/07/2014	74.00		AHD	8100	5.000	8.00	1058m	South
10075102	GW702636	Monitoring	Functional	14/07/2005	5.20		AHD				1060m	South East
10047530	GW704655	Monitoring	Functional	24/02/2010	7.00		AHD			4.00	1413m	South East
10070474	GW702956	Monitoring	Unknown	14/11/2006	5.00		AHD				1435m	South East
10040780	GW701813	Water Supply	Functioning	19/09/2003	54.00		AHD		0.750	24.00	1566m	South
10075177	GW703415	Water Supply	Functioning	04/04/2005	48.00		AHD		3.500	26.00	1567m	South
10147045	GW706209	Stock and Domestic	Abandoned	06/10/2016	38.50		AHD				1739m	South
10078308	GW702045	Water Supply	Abandoned	17/10/2003	9.50		AHD	7000		6.50	1792m	South West
10073879	GW702740	Water Supply	Removed	26/10/2005	46.00		AHD	Salty			1807m	East
10037162	GW702880	Water Supply	Abandoned	24/07/2002	53.00		AHD				1811m	South West
10054090	GW092235	Monitoring	Proposed	12/11/1996	3.14	236.80	AHD				1825m	South East
10107892	GW021073	Other	Unknown	01/09/1964	52.70		AHD				1866m	South East
10066117	GW704479	Monitoring	Functional	19/10/2011	4.20		AHD	2028	0.100	1.37	1877m	South East
10003807	GW704868	Monitoring	Functional	18/03/2011	4.00		AHD			2.06	1879m	South East
10003273	GW704871	Monitoring	Functional	18/03/2011	4.00		AHD			1.27	1880m	South
10000800	GW704866	Monitoring	Functional	18/03/2011	4.00		AHD			1.65	1885m	South East
10070360	GW704480	Monitoring	Functional	19/10/2011	4.20		AHD	2010	0.100	1.68	1888m	South East
10079247	GW704481	Monitoring	Functional	19/10/2011	4.50		AHD	2010	0.100	1.11	1893m	South East
10001288	GW704869	Monitoring	Functional	18/03/2011	4.00		AHD			1.63	1894m	South East
10069280	GW704482	Monitoring	Functional	19/10/2011	4.20		AHD	2010	0.100	1.54	1894m	South
10082626	GW092245	Monitoring	Proposed	13/11/1996	6.86	236.70	AHD				1894m	South East
10040678	GW965685	Unknown	Unknown				AHD				1898m	South
10005613	GW704870	Monitoring	Functional	18/03/2011	4.00		AHD			1.64	1899m	South East
10149910	GW704872	Monitoring	Functional	18/03/2011	4.00		AHD			3.77	1899m	South East
10040567	GW965686	Unknown	Unknown				AHD				1900m	South
10069519	GW704483	Monitoring	Functional	20/01/2009	5.00		AHD	2010	0.100	3.00	1901m	South East
10002661	GW704873	Unknown	Functional	18/03/2011	4.00		AHD			3.00	1903m	South East
10080077	GW092246	Monitoring	Proposed	13/11/1996	5.00	236.06	AHD				1926m	South East
10054817	GW092237	Monitoring	Proposed	12/11/1996	4.20	236.58	AHD				1930m	South East
10049785	GW092236	Monitoring	Proposed	12/11/1996	4.06	236.63	AHD				1949m	South East
10054818	GW092240	Monitoring	Proposed	12/11/1996	2.30	236.60	AHD				1980m	South East

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 $^{\circ}$ Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

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Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

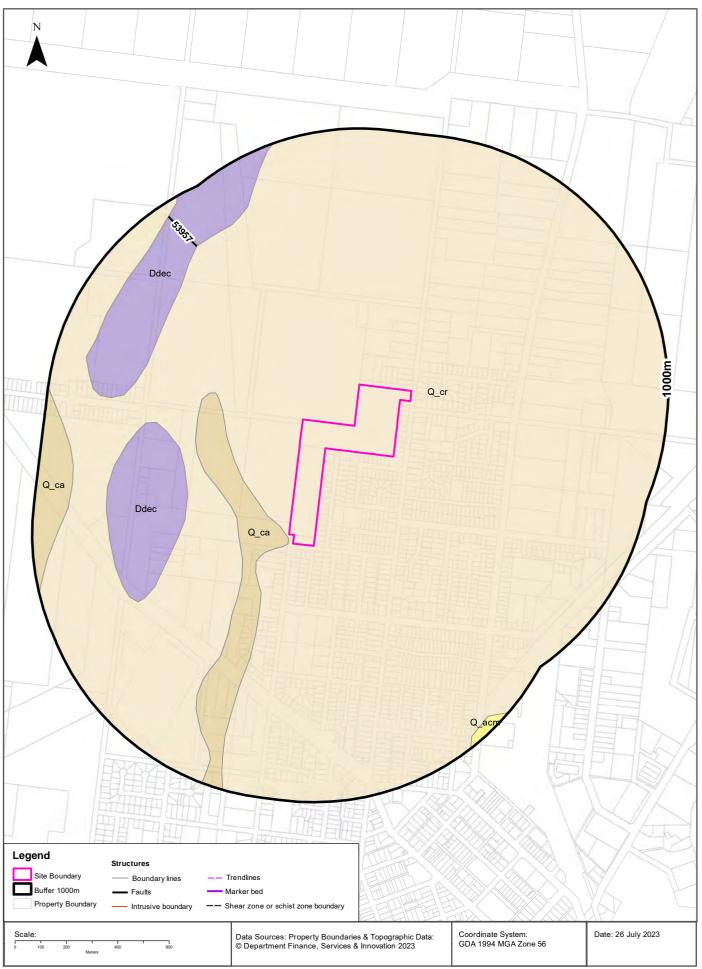
NGIS Bore ID	Drillers Log	Distance	Direction
10067818	0.00m-0.30m Fill, Silty Clay, dark brown, stiff, contains gravel 0.30m-1.00m Silty Clay, orange/rown, stiff 1.00m-2.00m Silty Clay, orange, with rock 2.00m-3.00m Silty Clay, orange/brown, soft 3.00m-5.20m Silty Clay, light brown/tan	962m	South East
10080506	0.00m-0.20m Fill, Silty Clay, brown 0.20m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, orange brown, stiff to very stiff 3.00m-4.00m Silty Clay, red brown, firm 4.00m-5.20m Silty Clay, light grey & light yellow, soft	967m	South East
10069835	0.00m-0.30m Fill, silty clay, black, stiff, contains gravel 0.30m-0.90m Silty Clay, brown, stiff 0.90m-2.00m Silty Clay, yellow/brown, contains rock 2.00m-3.00m Silty Clay, light brown/yellow, firm, minor gravel 3.00m-5.20m Silty Clay, light brown/tan, soft	987m	South East
10070930	0.00m-0.40m Fill, Silty Clay, grey/brown, stiff, contains gravel 0.40m-3.00m Silty Clay, orange/brown, stiff 3.00m-5.20m Silty Clay, ligth brown, soft-firm	995m	South East
10069214	0.00m-0.30m Fill, clay, ligth brown, stiff, contains gravel 0.30m-2.00m Clay, orange brown, stiff 2.00m-3.00m Silty Clay, red brown to light brown, very stiff 3.00m-4.00m Silty Clay, light brown/tan, firm, minor gravels 4.00m-5.00m Silty Clay, firm to soft, trace gravels 5.00m-5.20m Silty Clay, no gravels	997m	South East
10069747	0.00m-0.30m Fill, clay, light brown, contains gravel 0.30m-2.00m Clay, orange brown 2.00m-3.00m Clay, red brown, stiff to very stiff 3.00m-5.00m Silty Clay, light grey, firm 5.00m-5.20m Silty Clay, light grey/light yellow, firm to soft	1013m	South East
10066342	0.00m-0.50m Silty Clay, brown, stiff 0.50m-2.00m Silty Clay, orange/brown 2.00m-3.00m Silty Clay, light orange/brown, firm 3.00m-4.00m Silty Clay, light brown/tan, soft 4.00m-5.20m Silty Clay, light brown/tan	1020m	South East
10073197	0.00m-1.00m Clay, chocolate brown and red brown, plastic 1.00m-2.00m Clay, red brown plastic, iron rich, minor pisolites 2.00m-5.00m Clay, pink red plastic, iron rich, minor pisolites 5.00m-6.40m Cla, yellow brown and pink brown mottled, semi-plastic	1021m	South East
10072479	0.00m-0.50m Silty Clay, brown 0.50m-0.80m Silty Clay, brown, moist 0.80m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, brown to dark brown, soft 3.00m-4.00m Silty Clay, mottled with orange brown 4.00m-5.20m Silty Clay, soft	1031m	South East
10075153	0.00m-0.02m Bitumen 0.02m-2.00m Clay, red brown plastic clay, iron rich and pisolitic 2.00m-2.50m Clay, orange brown plastic clay with gravel matrix up to 1cm diameter, 20% gravel 2.50m-5.00m Clay, pale brown and cream mottled plastic clay, minor gravel matrix, becoming moist @ 3m 5.00m-6.50m Clay, pale cream mottled plastic clay, very minor gravel matrix decreasing with depth	1041m	South East
10079423	0.00m-0.02m Bitumen 0.02m-2.00m Clay, chocolate brown, organic bitumen odour 2.00m-3.00m Clay, chocolate brown, semi plastic, some organics, minor pisolites, bitumen odour 3.00m-4.00m Clay, brown, semi plastic. Bitumen odour, Moist @ 3.1m 4.00m-6.50m Clay, brown with reddish tinge, minor yellow mottling, semiplastic. Bitumen odour. Minor pisolitic gravel	1041m	South East
10069434	0.00m-0.80m Silty Clay, brown 0.80m-2.00m Silty Clay, orange brown 2.00m-4.00m Silty Clay, brown/dark brown, soft 4.00m-5.00m Silty Clay, mottled with orange brown, firm 5.00m-5.20m Silty Clay, no plasticity	1048m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10066335	0.00m-1.00m topsoil, brown 1.00m-3.00m clay, hard, light brown 3.00m-4.00m clay, tight, dark brown 4.00m-5.00m shale, rock, brown 5.00m-11.00m shale, tight, brown 11.00m-13.00m shale, tight, red 13.00m-18.00m shale, tight, orange 18.00m-24.00m shale, firm, red orange 24.00m-48.00m shale, soft, weathered, orange 48.00m-50.00m shale, rocky, hard 50.00m-60.00m shale, rocky, quartz bands, green 60.00m-74.00m shale, hard, green, blue, brown	1058m	South
10075102	0.00m-0.50m Silty Clay, brown 0.50m-1.00m Silty Clay, moist 1.00m-2.00m Silty Clay, orange brown 2.00m-3.00m Silty Clay, brown, firm 3.00m-4.00m Silty Clay, mottled orange brown & light grey, stiff 4.00m-5.00m Silty Clay, firm 5.00m-5.20m Silty Clay, soft	1060m	South East
10047530	0.00m-1.00m fill, crushed rock 1.00m-2.00m silty clay 2.00m-7.00m siltsone	1413m	South East
10070474	0.00m-0.40m dark grey brown loamy sand , some organic material 0.40m-4.80m gravelly silty clay, orange brown gravel layers throughout, particularly 3 to 3.5 m. 4.80m-5.00m bedrock	1435m	South East
10040780	0.00m-0.60m Topsoil 0.60m-42.00m Red Sandy Clay 42.00m-54.00m Gravel	1566m	South
10075177	0.00m-0.10m topsoil 0.10m-40.00m clay 40.00m-48.00m sandy gravel	1567m	South
10073879	0.00m-35.00m Shale, yellow 35.00m-40.00m Shale, black, water cut 40.00m-46.00m Shale, black	1807m	East
10037162	0.00m-8.80m Clay 8.80m-12.30m Sand & Clay, creamish 12.30m-19.40m Clay, reddish mottle 19.40m-53.00m Clay, creamish 53.00m-53.00m Bedrock	1811m	South West
10054090	0.00m-1.50m Clay, dry powder, medium, Apedal 1.50m-2.00m Clay, damp powder, medium 2.00m-4.00m Loam Sand, saturated, light	1825m	South East
10107892	0.00m-0.61m Clay Yellow Slate 0.61m-1.22m Soil Black 1.22m-8.53m Clay 8.53m-10.67m Clay Grey Soft Silty 10.67m-11.89m Sand Coarse Water Supply Gravel Very Coarse Stones 11.89m-12.80m Sand Coarse Water Supply Gravel Very Coarse Water Supply 12.80m-13.72m Sand Very Coarse Water Supply 13.72m-14.63m Silt Grey Sandy 14.63m-16.76m Sand Coarse Water Supply Gravel Fine 16.76m-17.68m Clay Red Grey 17.68m-19.51m Clay Grey 19.51m-23.16m Shale Decomposed Slate Water Supply Quartzite 23.16m-26.21m Shale Decomposed Slate Quartz Waterworn Stones 26.21m-32.61m Shale Decomposed Slate Quartzite Waterworn Stones 32.61m-37.19m Shale Decomposed Slate Stones Waterworn Soft 37.19m-46.33m Shale Decomposed Slate Stones Waterworn 46.33m-48.77m Shale Yellow Decomposed Hard Bands 48.77m-50.90m Shale Decomposed Slate 50.90m-52.73m Slate Yellow	1866m	South East
10066117	0.00m-2.20m fill, silty clay, gravelly, dark yellowish brown 7.5yr 4/4 2.20m-2.50m fill, diorite 60-125mm gabion PID 0.0 ppm IBE 2.50m-4.00m shale, extremely weathered, dark yellowish brown 7.5R 4/4 with dark greyish brown 10yr 4/2 mottles	1877m	South East
10003807	0.00m-1.20m Fill; medium clay, gravelly dark brown, moist 1.20m-1.60m Clay; medium, gravelly, dark brown 1.60m-2.00m Clay; silty, brown, moist 2.00m-2.70m Clay; medium, yellow brown, with light grey mottles 2.70m-3.30m Clay; silty, with weathered shale, brownish yellow 3.30m-4.00m Shale; clayey (extremely weathered shale), yellowish brown	1879m	South East
10003273	0.00m-0.20m Gravel; 2-5mm basalt, blue-grey 0.20m-0.50m Gravel; 10mm shale roadbase gravel 0.50m-0.80m Fill; fine sandy loam, dark brown 0.80m-1.70m Clay; silty, dark brown, plastic, cohesive 1.70m-2.70m Clay; weathered shale, brown, plastic, cohesive, some quartz phenocrysts 10% 2.70m-4.00m Clay; heavy, weathered shale, reddish yellow & white, <5% inclusions	1880m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10000800	0.00m-2.00m Fill; Silty Clay, gravelly, dark brown, brick & concrete inclusions 20% 2.00m-2.70m Clay; silty, dark brown 2.70m-3.30m Fill; Diorite 60-125mm gabion 3.30m-4.00m Clay; silty, grey brown, plastic with grey mottles	1885m	South East
10070360	0.00m-0.70m loam, silty, gravelly, dark brown 10yr 5/3 PID 0.0 ppm IBE 0.70m-2.50m clay, silty, gravelly, dark greyish brown 10 yr 4/2 PID 42.8 ppm IBI 2.50m-3.30m clay, silty, gravelly, yellowish brown 10 yr 5/6 PID 51.2 ppm IBE 3.30m-4.20m clay, medium, brown 10 yr 5/3 PID 37.5 to 0 ppm	1888m	South East
10079247	0.00m-1.00m loam, silty, sandy dark greyish brown, 10yr 4/2 PID 0.0 ppm IBE 1.00m-2.00m clay, silty, brown 10 yr 5/3 2.00m-2.80m clay, silty, dark greyish brown10 yr 4/2 2.80m-4.50m clay, medium, brown 10yr 5/3, moist, plastic	1893m	South East
10001288	0.00m-1.30m Fill; silty clay, gravelly, dark brown 1.30m-1.60m Clay; silty, dark brown 1.60m-2.60m Clay; silty, greyish brown, plastic 2.60m-3.50m Clay; silty, greyish brown 3.50m-3.60m Clay; silty, gellowish brown, highly plastic with dark grey, white dark yellowish brown mottles 3.60m-4.00m Clay; silty, light grey with few yellowish brown mottles	1894m	South East
10069280	0.00m-0.80m loam, silty, dark reddish brown 5yr 3/3 0.80m-2.00m clay, silty, dark greyish brown 10yr 4/2 2.00m-2.50m clay, medium greyish brown 10yr 5/2 PID 1095 ppm IBE 2.50m-4.20m clay, medium brown 10yr 5/3 with orange and grey mottles PID 105 ppm IBE at 3.0 mbgsl	1894m	South
10082626	0.00m-0.20m Loam, dry, sandy 0.20m-1.00m Clay, dry, very strong, medium 1.00m-2.00m Clay, slightly moist, strong, medium 2.00m-3.00m Sandy Clay, moist, weak 3.00m-4.00m Clay, wet, weak, light 4.00m-6.86m Super saturated	1894m	South East
10005613	0.00m-0.30m Gravel; 10mm basalt, blue-grey 0.30m-0.60m Loam, Silty; dark brown 0.60m-1.30m Silty Clay; dark reddish grey, some grey mottles 1.30m-1.60m Clay; shaley, brown, moist, extremely weathered shale, inclusions small, <10mm 1.60m-3.50m Shale; leached, very pale brown, with fine angular inclusions 10%, wet 3.50m-4.00m Shale; weathered, strong brown, clayey with inclusions	1899m	South East
10149910	0.00m-0.20m Fill; road base shale & clay 0.20m-0.70m Loam; sandy, dark brown 0.70m-2.50m Clay; silty, dark brown 2.50m-4.00m Clay; silty, brown	1899m	South East
10069519	0.00m-0.20m sand, coarse, loamy, reddish brown 5yr 4/4 0.20m-0.50m clay, sandy, brown and shale, reddish yellow 0.50m-0.90m loam, silty, clayey, dark grey 7.5yr 4/2 light grey mottles, moist 0.90m-1.20m clay, medium, silty, brown 7.5yr 4/4 1.20m-1.80m clay, light medium, greyish brown 10yr 5/2 1.80m-2.50m clay, silty, greyish brown, moist 2.50m-3.00m clay, medium, sandy, reddish yellow 7.5 6/8 mottled light brownish grey 10yr 6/2 3.00m-3.50m clay, medium light brownish grey, moist 3.90m-5.00m clay, medium, light brownish grey, moist 3.90m-5.00m clay, medium light brownish grey 10tyr 6/2, wet	1901m	South East
10002661	0.00m-0.20m Fill; road base shale & clay 0.20m-0.60m Clay; silty, brown 0.60m-3.00m Clay; silty, dark greyish brown, moist, firm 3.00m-3.50m Clay; silty, dark brown, moist, plastic 3.50m-4.00m Clay; silty, dark yellowish brown	1903m	South East
10080077	0.00m-0.10m Loamy Clay, moist, weak 0.10m-2.00m Clay, moist, strong, medium 2.00m-3.00m Clay, wet, strong, medium 3.00m-4.00m Clay, wet, weak, medium 4.00m-5.00m Clay, saturated, weak, medium	1926m	South East
10054817	0.00m-0.50m Clay, dry, strong 0.50m-2.00m Clay, moist, strong 2.00m-3.00m Clay, moist, moderate, medium 3.00m-4.20m Sandy Clay, very moist, weak, light	1930m	South East
10049785	0.00m-0.50m Clay, dry, light, weak 0.50m-1.00m Clay, moist, moderate, light 1.00m-2.00m Clay, moist, strong, medium 2.00m-3.00m Sandy Clay, moist, weak 3.00m-4.06m sandy loamy clay, wet, weak	1949m	South East
10054818	0.00m-0.20m LOam, dry 0.20m-2.00m Clay, dry-moist, moderate, medium 2.00m-3.30m Sandy Clay, moist, weak, light	1980m	South East

 $\label{logDataSource:Bureau} \begin{tabular}{ll} Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 @ Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en \end{tabular}$





Geology

Farnell Street, Forbes, NSW 2300

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_cr	Colluvial and residual deposits	Undifferentiated colluvial and residual deposits.	/Colluvium//Colluvial and residual deposits//	Quaternary (base) to Pleistocene (top)	Clastic sediment	0m
Q_ca	Mixed colluvial, alluvial and aeolian deposits	Mixed colluvial, alluvial and aeolian deposits.	/Colluvium//Mixed colluvial, alluvial and aeolian deposits//	Quaternary (base) to Now (top)	Clastic sediment	11m
Ddec	Calarie Sandstone	Sandstone.	/Derriwong Group//Calarie Sandstone//	Gorstian (base) to Ludfordian (top)	Sandstone	409m
Q_acm	Alluvial channel deposits - meander-plain facies	Unconsolidated grey humic, clayey very fine- grained sand, typically overlying light brown clayey silt.	/Alluvium//Alluvial channel deposits/Alluvial channel deposits - meander-plain facies/	Quaternary (base) to Now (top)	Clastic sediment	949m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
53957	Faulted boundary	Fault, position accurate	Bogan Gate 1:100,000 Geological Sheet	792m

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW Creative Commons 4.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/4.0/au/deed.en

Naturally Occurring Asbestos Potential

Farnell Street, Forbes, NSW 2300

Naturally Occurring Asbestos Potential

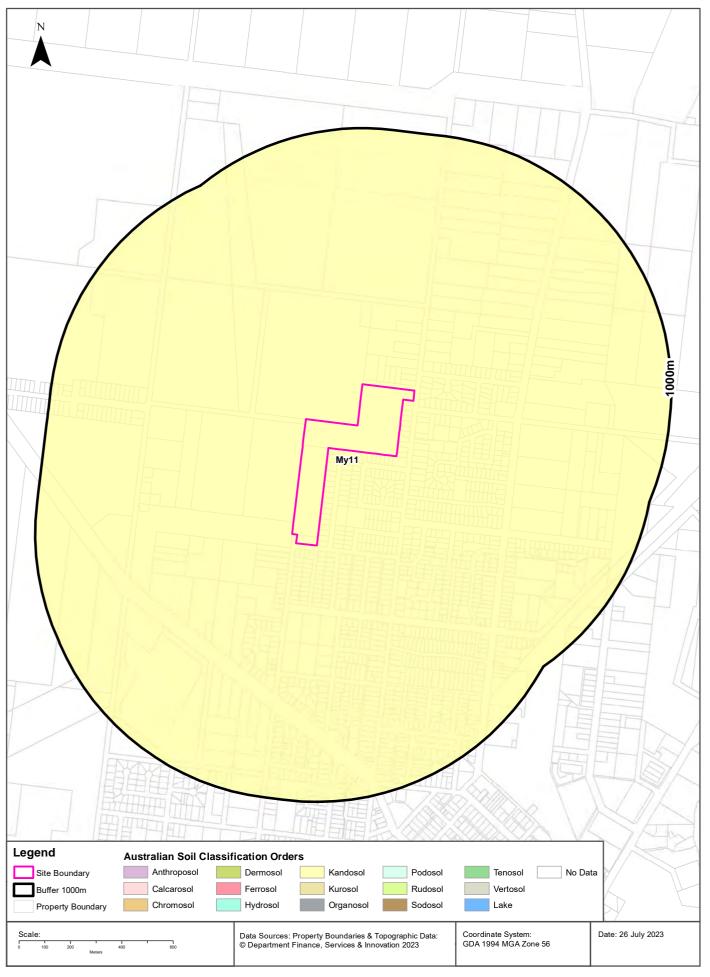
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils





Soils

Farnell Street, Forbes, NSW 2300

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
My11	Kandosol	Rolling to nearly flat country with some widely spaced ridges and hills: chief soils are neutral and alkaline red earths (Gn2.12 and Gn2.13), and in the more easterly occurrences of the unit some (Gn2.15 and Gn2.16) soils. Associated are: variable areas of hard alkaline red soils (Dr2.33), hard alkaline brown soils (Db2.43), and (Dy) soils; and some stony or shaly ridges and hills of units Qc4 and/or Qc3 or LK4. Data are limited.	Om	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW





Soils

Farnell Street, Forbes, NSW 2300

Soil Landscapes of Central and Eastern NSW

Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
<u>SI5507bh</u>	Bald Hill	0m	On-site
<u>SI5507pa</u>	Parkes	511m	North East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment Creative Commons 4.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/4.0/au/deed.en

Acid Sulfate Soils

Farnell Street, Forbes, NSW 2300

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils





Acid Sulfate Soils

Farnell Street, Forbes, NSW 2300

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Dryland Salinity

Farnell Street, Forbes, NSW 2300

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source: National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Farnell Street, Forbes, NSW 2300

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

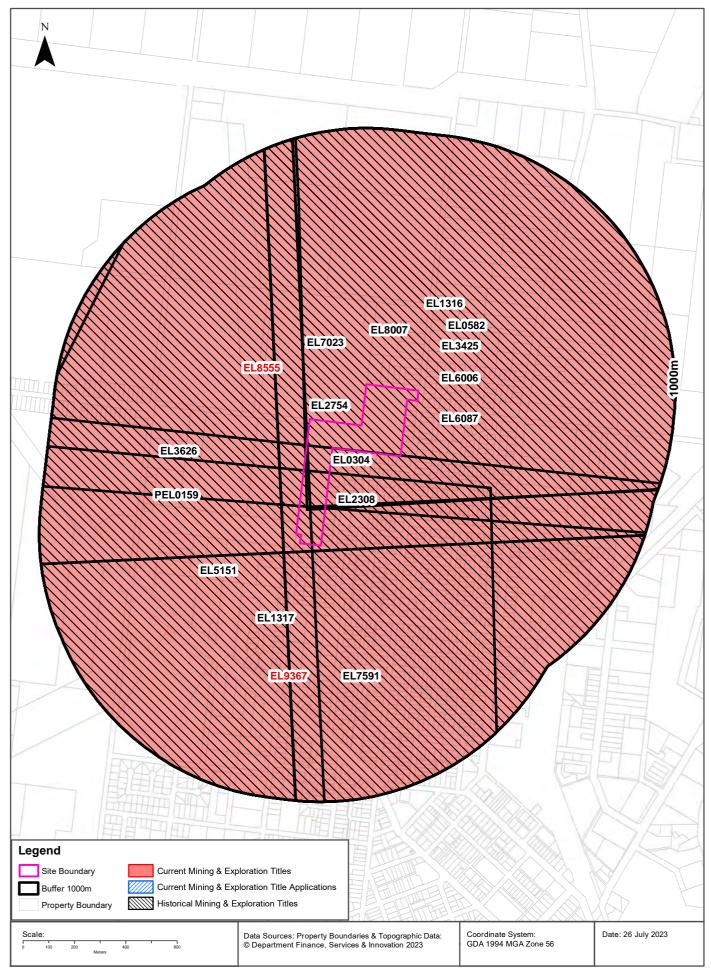
District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Mining & Exploration Titles

Farnell Street, Forbes, NSW 2300





Mining

Farnell Street, Forbes, NSW 2300

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
EL8555	GODOLPHIN TENEMENTS PTY LTD	05/05/2017	05/05/2023	20230505	EXPLORING	MINERALS	Group 1	0m	On-site
EL9367	STRATEGIC ENERGY RESOURCES LIMITED	09/03/2022	09/03/2025	20220309	EXPLORING	MINERALS	Group 1	20m	South

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Farnell Street, Forbes, NSW 2300

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL5151	PLATO MINING PTY LTD	19961114	19981113	MINERALS		0m	On-site
EL6087	GOLDEN CROSS OPERATIONS PTY. LTD.	20030603	20090602	MINERALS	Au Cu	0m	On-site
EL1316	MINERAL MANAGEMENT & SECURITIES PTY LIMITED	19800201	19840201	MINERALS	Au	0m	On-site
EL1317	MINERAL MANAGEMENT & SECURITIES PTY LIMITED	19800201	19820701	MINERALS	Au	0m	On-site
EL3626	NEWCREST MINING LIMITED	19900701	19920101	MINERALS	Au	0m	On-site
EL8007	KIMBERLEY DIAMONDS LTD	20121106	20141106	MINERALS	Au	0m	On-site
EL0304	NICKEL MINES LIMITED	19700801	19710801	MINERALS	Cu Pb Zn Ag Au	0m	On-site
EL6006	GOLDEN CROSS OPERATIONS PTY. LTD.	20021003	20030603	MINERALS	Au	0m	On-site
EL7023	TRI ORIGIN MINING PTY LIMITED	20080120	20170120	MINERALS	Au Cu	0m	On-site
EL2754	EPOCH MINING NL	19861201	19900301	MINERALS	Au	0m	On-site
EL0582	GLENDALE EXPLORATION NL	19730101	19740101	MINERALS	Au Cu	0m	On-site
EL3425	DELTA GOLD EXPLORATION PTY LTD,TRI ORIGIN AUSTRALIA NL	19900201	19940225	MINERALS	Au	0m	On-site
EL2308	INTERNATIONAL MINING CORPORATION NL	19841101	19860301	MINERALS	Au	0m	On-site
EL7591	CENTIUS GOLD LIMITED	20100804	20140804	MINERALS	Au Cu	20m	South
PEL0159	PLANET EXPLORATION COMPANY PTY LTD			PETROLEUM	Petroleum	51m	West

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Farnell Street, Forbes, NSW 2300

State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

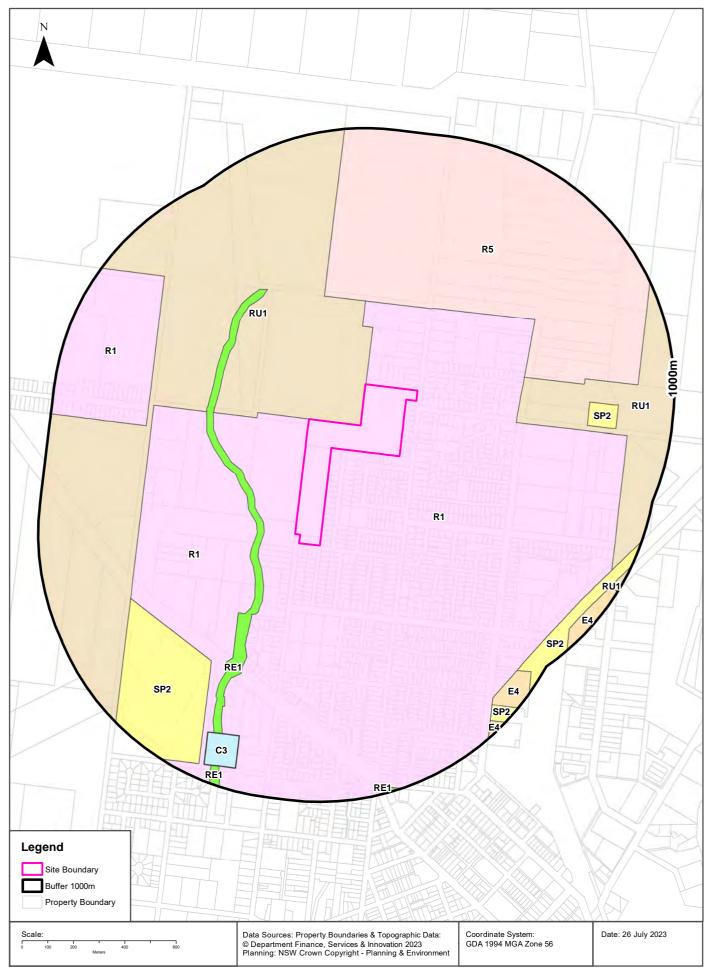
Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment Creative Commons 4.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/4.0/

EPI Planning Zones

Farnell Street, Forbes, NSW 2300





Environmental Planning Instrument

Farnell Street, Forbes, NSW 2300

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	On-site
RU1	Primary Production		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	North West
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	121m	South West
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	148m	South West
R5	Large Lot Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	324m	North East
SP2	Infrastructure	Cemetery	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	574m	South West
R1	General Residential		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	626m	North West
SP2	Infrastructure	Water Reservoir	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	670m	East
C3	Environmental Management		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	787m	South West

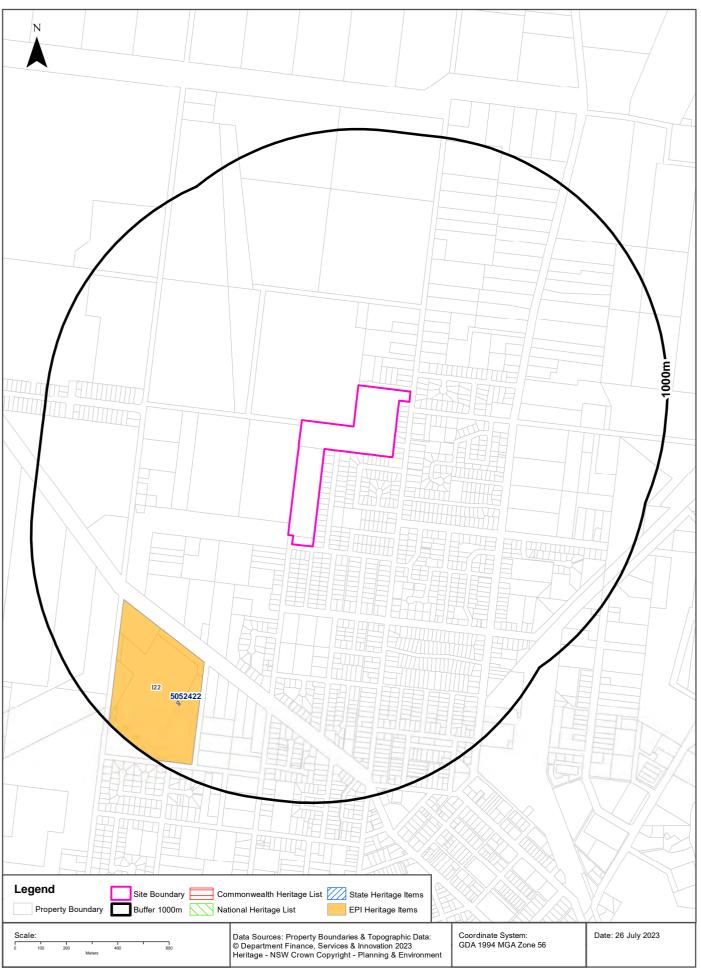
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	897m	South East
SP2	Infrastructure	Rail Infrastructure	Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	899m	South East
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	924m	South
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	939m	South East
E4	General Industrial		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	951m	South East
RU1	Primary Production		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	964m	South East
RE1	Public Recreation		Forbes Local Environmental Plan 2013	24/02/2023	26/04/2023	26/04/2023	State Environmental Planning Policy Amendment (Land Use Zones) 2023	973m	South

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Heritage Items

Farnell Street, Forbes, NSW 2300





Heritage

Farnell Street, Forbes, NSW 2300

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch Creative Commons 3.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/3.0/au/deed.en

National Heritage List

What are the National Heritage List Items located within the dataset buffer? Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch Creative Commons 3.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/3.0/au/deed.en

State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5052422	The Ben Hall Sites - Grave of Ben Hall	Various , Forbes	FORBES	08/10/2010	01827	2281	757m	South West

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage Creative Commons 4.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/4.0/

Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
122	Forbes General Cemetery (including Shaw / Bodell Kurrajong)	Item - General	Local	Forbes Local Environmental Plan 2013	09/08/2013	09/08/2013	09/08/2013	574m	South West

Heritage Data Source: NSW Crown Copyright - Planning & Environment Creative Commons 4.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/4.0/

Natural Hazards

Farnell Street, Forbes, NSW 2300

Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

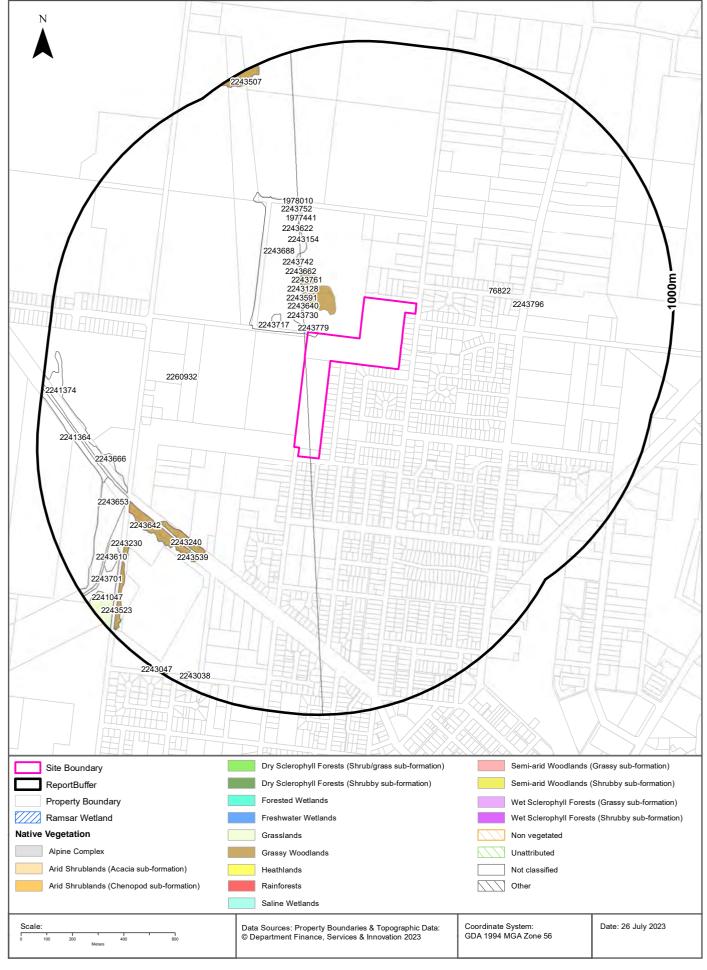
Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

Farnell Street, Forbes, NSW 2300





Ecological Constraints

Farnell Street, Forbes, NSW 2300

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
76822	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2243779	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2260932	Not classified	(Not classified) Not classified	Not classified	0m	On-site
2243688	Not classified	(Not classified) Not classified	Not classified	14m	North West
2243606	Not classified	(Not classified) Not classified	Not classified	16m	North West
2243730	Not classified	(Not classified) Not classified	Not classified	24m	North West
2243746	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	76m	North
2243640	Not classified	(Not classified) Not classified	Not classified	105m	North West
2243717	Not classified	(Not classified) Not classified	Not classified	111m	North West
2243591	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	128m	North West
2243128	Not classified	(Not classified) Not classified	Not classified	142m	North West
2243761	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions		182m	North West
2243598	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	185m	North West
2243662	Not classified	(Not classified) Not classified	Not classified	222m	North West
2243742	Not classified	(Not classified) Not classified	Not classified	253m	North West
2243154	Not classified	(Not classified) Not classified	Not classified	295m	North
2243622	Not classified	(Not classified) Not classified	Not classified	368m	North
1977441	Not classified	(Not classified) Not classified	Not classified	391m	North
2243796	Grasslands	(Grasslands) Plains Grass grassland on alluvial mainly clay soils in the Riverina Bioregion and NSW South Western Slopes Bioregion	Riverine Plain Grasslands	420m	East
2243752	Not classified	(Not classified) Not classified	Not classified	422m	North
1978010	Not classified	(Not classified) Not classified	Not classified	454m	North
2243240	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions		519m	South West
2243539	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions		556m	South West
2243642	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	559m	South West
2243666	Not classified	(Not classified) Not classified	Not classified	669m	South West
2243653	Not classified	(Not classified) Not classified	Not classified	677m	South West

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
2241364	Not classified	(Not classified) Not classified	Not classified	734m	West
2243230	Grassy Woodlands	Grassy Woodlands) Western Grey Box tall grassy voodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions		746m	South West
2241374	Not classified	(Not classified) Not classified	Not classified	750m	West
2243610	Not classified	(Not classified) Not classified	Not classified	781m	South West
2243523	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	796m	South West
2243701	Not classified	(Not classified) Not classified	Not classified	798m	South West
2241047	Grasslands	(Grasslands) Plains Grass grassland on alluvial mainly clay soils in the Riverina Bioregion and NSW South Western Slopes Bioregion	Riverine Plain Grasslands	903m	South West
2243038	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	941m	South West
2243507	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	949m	North
2243047	Grassy Woodlands	(Grassy Woodlands) Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions	Floodplain Transition Woodlands	979m	South West

Native Vegetation Type Map: NSW Department of Planning and Environment 2022 Creative Commons Attributions 4.0 © Commonwealth of Australia https://creativecommons.org/licenses/by/4.0/

Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

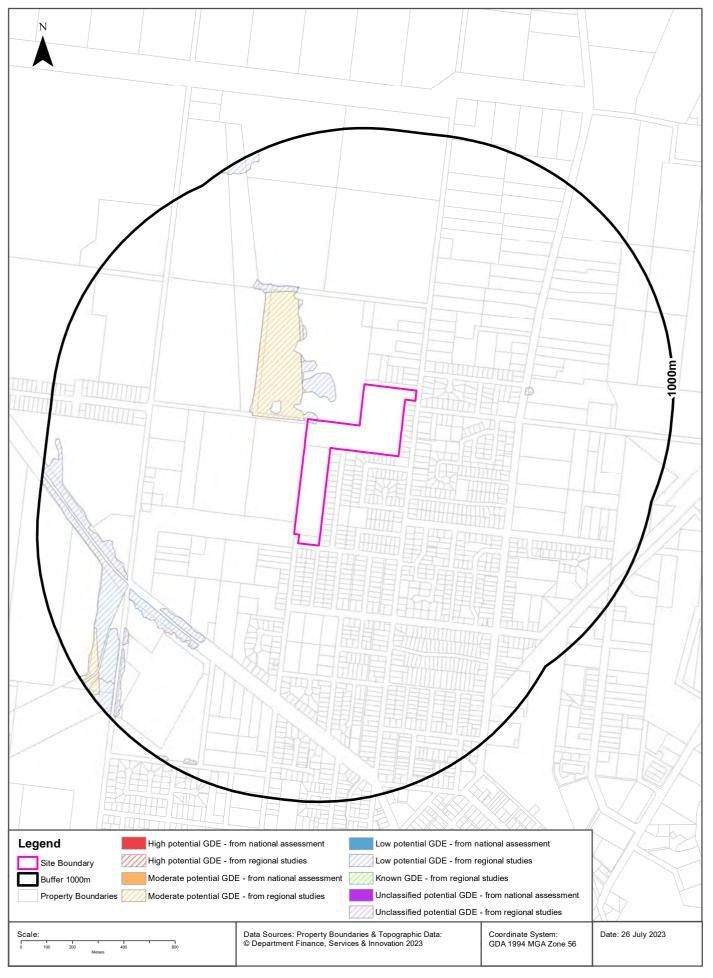
N	lap Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
Ν	I/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Farnell Street, Forbes, NSW 2300





Ecological Constraints

Farnell Street, Forbes, NSW 2300

Groundwater Dependent Ecosystems Atlas

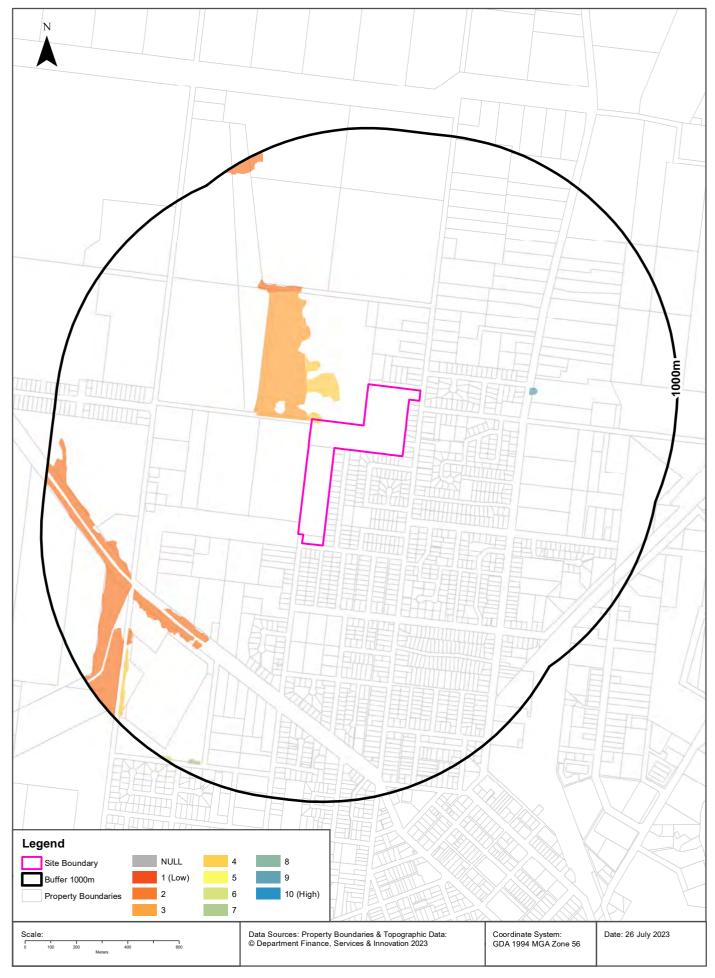
Туре	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from regional studies	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		0m	On-site
Terrestrial	Moderate potential GDE - from regional studies	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		15m	North West

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Farnell Street, Forbes, NSW 2300





Ecological Constraints

Farnell Street, Forbes, NSW 2300

Inflow Dependent Ecosystems Likelihood

Туре	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	4	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		0m	On-site
Terrestrial	3	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		15m	North West
Terrestrial	9	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		420m	East
Terrestrial	2	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		450m	North West
Terrestrial	7	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		941m	South West
Terrestrial	6	Plains with remnants of silcrete and low sandstone ridges, sand cover in west, with west-east longitundinal dunes.	Vegetation		979m	South West

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Ecological Constraints

Farnell Street, Forbes, NSW 2300

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Vulnerable	Category 2	Vulnerable	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Grus rubicunda	Brolga	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala inornata	Gilbert's Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Plantae	Flora	Diuris tricolor	Pine Donkey Orchid	Vulnerable	Category 2	Not Listed	

Data does not include NSW category 1 sensitive species. NSW BioNet: © State of NSW and Office of Environment and Heritage

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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Appendix C







Description:

The Site facing north.

Date:





Description:

The Site facing south.

Date:

8.04.25



Plate 4

Description:

The Site facing south-west.

Date:





Description:

The Site facing west.

Date:

8.04.25



Plate 6

Description:

Northern portion of the Site with fly tipping observed.

Date:





Description:

The Site facing south-east.

Date:

8.04.25



Plate 8

Description:

The central portion of the Site.

Date:





Description:

The central portion of the Site.

Date:

8.04.25



Plate 10

Description:

Fly tipping in the central portion of the Site.

Date:





Description:

Electrical easement.

Date:

8.04.25



Plate 12

Description:

Gravel hardstand road.

Date:





Description:

Southern portion of the Site.

Date:

9.04.25



Plate 12

Description:

TP01

Date:





Description:

TP02.

Date:

8.04.25

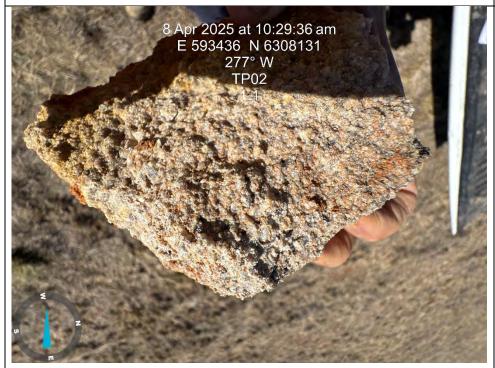


Plate 14

Description:

Clastic material.

Date:





Description:

Gravelly CLAY material.

Date:

8.04.25



Plate 16

Description:

TP03.

Date:





Description:

Clast.

Date:

8.04.25

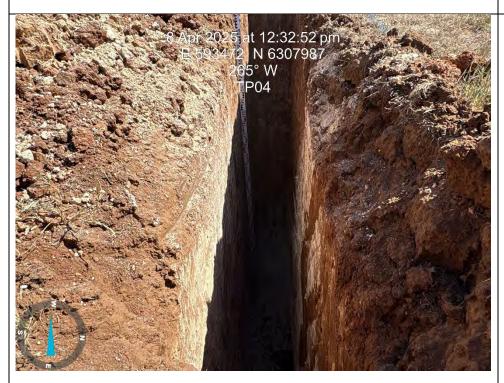


Plate 18

Description:

TP04.

Date:





Description:

TP06.

Date:

9.04.25



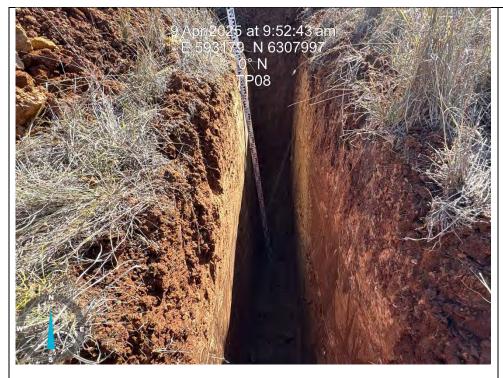
Plate 20

Description:

TP07. Siltstone.

Date:





Description:

TP08.

Date:

9.04.25



Plate 22

Description:

TP08. Silty CLAY.

Date:





Description:

TP12.

Date:

9.04.25



Plate 24

Description:

AEC3 – Gravel hardstand.

Date:





Description:

TP11.

Date:

8.04.25



Plate 26

Description:

TP11.

Date:





Plate 27
Description:

TP05. Siltstone.

Date:



Appendix D HISTORICAL TITLE SEARCH



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

Summary of Owners Report

Re: - Farnell Street, Forbes, NSW 2300

Description: - Lot 7332 D.P. 1166365 & Lot 7025 D.P. 1020631

As regards Lot 7332 D.P. 1166365

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	As regards the part numbered (1) on the attached Cadastral Records Enquiry Report	
31st October 1891	Crown Reserve No. 14751 for Gravel Pit	Government Gazette 31st October 1891 Folio 8713
	Annual Lease 9751 for Gravel Pit	
	Withdrawn from Annual Lease 9751 by Government Gazette 18 th November 1899 Folio 8706	
18th November 1899	Crown Reserve No. 30115 from Lease generally for Gravel	Government Gazette 18 th November 1899 Folio 8717
14 th February 1975	Revocation of Crown Reserve No. 14751	Government Gazette 14 th February 1975 Folio 558.
	As regards the part numbered (2) on the attached Cadastral Records Enquiry Report	
20th December 1890	Crown Reserve No. TSR 13183	Government Gazette 20 th December 1890 Folio 9757
1892	Crown Plan 95-3035 also showing this land as part of a road 500 links wide	
14 th January 1972	Revocation of Crown Reserve No. TSR 13183	Government Gazette 14 th January 1972 Folio 161
	Continued as regards the whole of the subject land	
17 th June 1977	Government Gazette 17th June 1977 Folio 2428 contains a diagram that reflects the part of the subject land that I have numbered (1) as Vacant Crown Land and the part of the subject land I have numbered (2) as Road.	
	The records maintained by NSW LRS do not disclose the subject land to form a part of a current reserve.	
	It is known that unalienated crown lands in the Parish of Forbes to be comprised within Crown Reserve No. 750158 for Future Public Requirements notified in Government Gazette dated 9th June 2007 Folios 4182 and 4183.	
	Furthermore, I could find no evidence of the part I have numbered (2) and being identified in the 1977 gazette as Road, having been closed.	
	# The State of New South Wales	7332/1166365

Denotes current registered proprietor

Continued over.

Email: mark.groll@infotrack.com.au



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 7332 D.P. 1166365

Leases: - NIL

Easements: -

As regards Lot 7025 D.P. 1020631

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale	
	Formerly a Crown Road 500 links wide		
20th December 1890	Crown Reserve No. 13183 for Travelling Stock	Gazette	
	# The State of New South Wales	7025/1020631	

Denotes current registered proprietor

Leases: - NIL

Easements: -

• 7th July 1961 (Gazette & Crown Plan 1958-3035) Easement for Transmission Line.

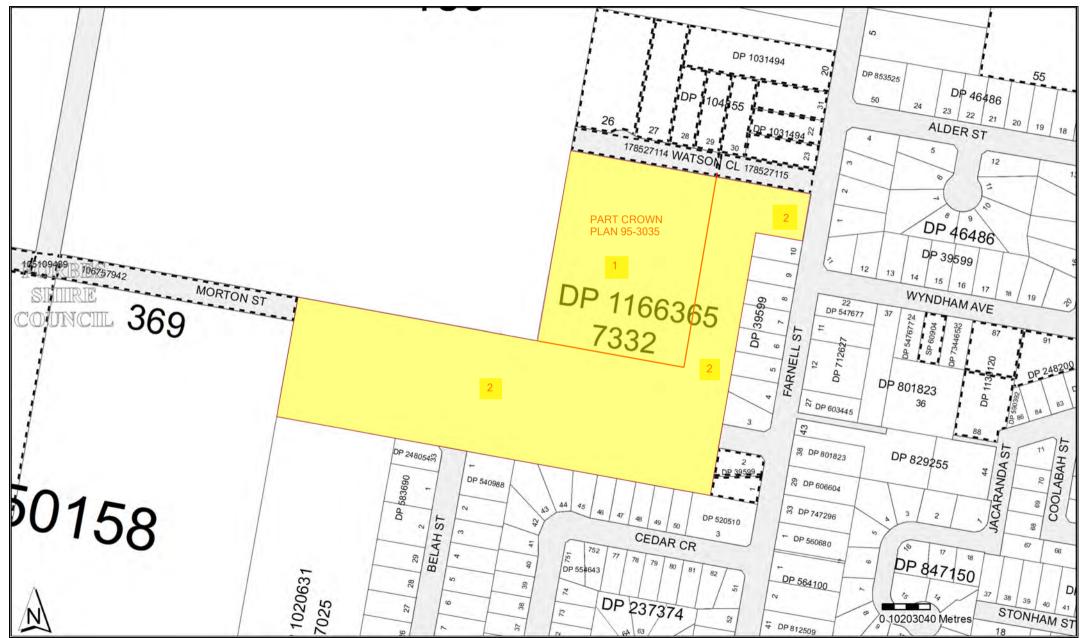
Yours Sincerely Mark Groll 27 July 2023



Cadastral Records Enquiry Report: Lot 7332 DP 1166365

Locality: FORBES Parish: FORBES

LGA: FORBES **County**: ASHBURNHAM





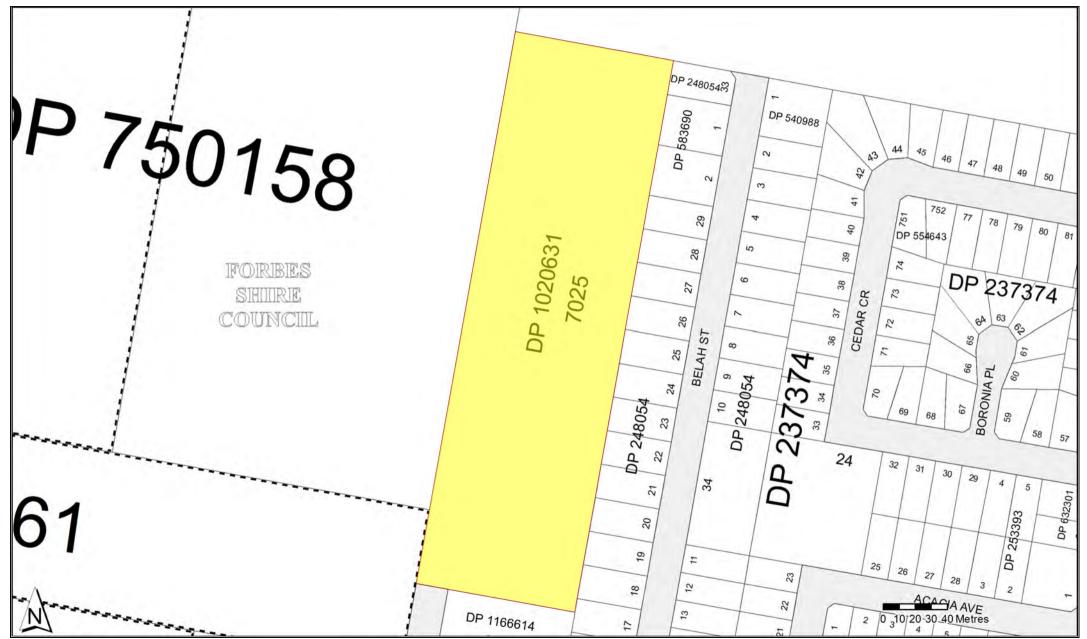
Cadastral Records Enquiry Report: Lot 7025 DP 1020631

Locality: FORBES

Parish: FORBES

Ref: LS046213_EP - Farnell Street

LGA: FORBES **County**: ASHBURNHAM





PLAN OF CROWN LAND SHOWING FORMER ARTIFICIAL ID

410/7025//750158/190073

Shire/City FORBES

Town/Locality FORBES

Parish FORBES

County ASHBURNHAM

Not to Scale

DP1020631



Registered (3) 4/22.11.2000

Title System CROWN LAND

Purpose

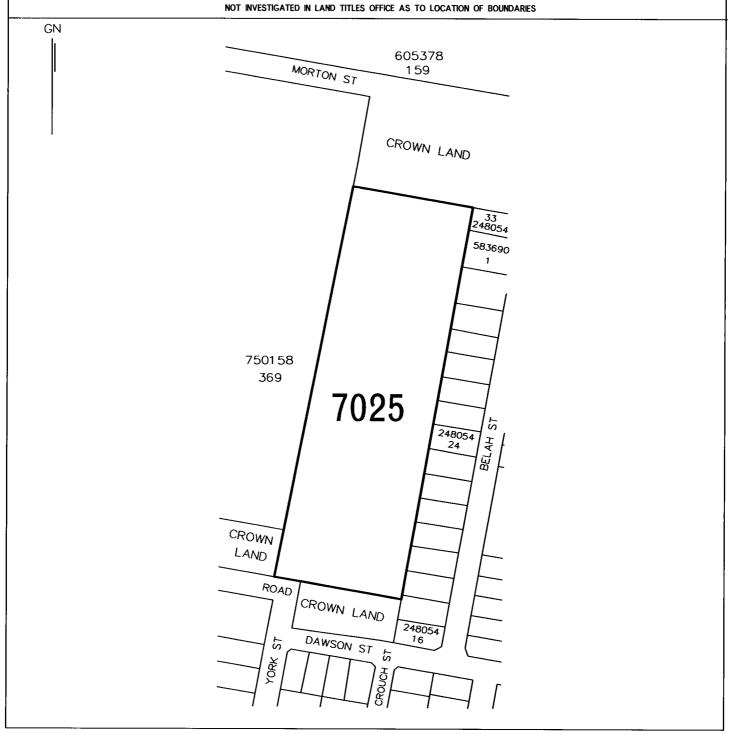
DEPARTMENTAL

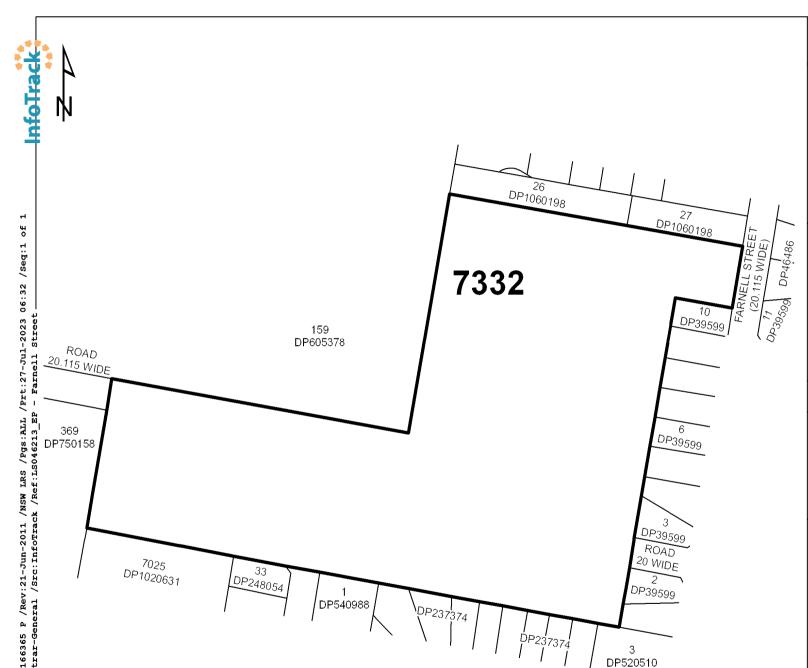
Reference Map FORBES SH. 6 **

DCDB Partition JEMAS FORBIN

Last Plan -

DIAGRAM FOR IDENTIFICATION PURPOSES ONLY ... NOT TO BE USED FOR FOLIO CREATION THIS IS NOT A SUBDIVISION OF THE CROWN ESTATE. STATUS MAY NEED TO BE VERIFIED.





Req:R946619 © Office of

DP1166365

Registered:

10-6-2011

Title System: CROWN LAND

Purpose: CROWN LAND CONVERSION

ENVIRONS OF FORBES, FORBES SH. 6 Reference Map:

Last Plan: 95-3035

DP750158__UP123374_7332

CA159470

PLAN OF CROWN LAND BEING

RESERVE

Lengths are in metres. Reduction Ratio - NTS

Sheet 1 of 1 sheets

LGA:

FORBES

LOCALITY:

FORBES (6A)

PARISH:

FORBES

COUNTY:

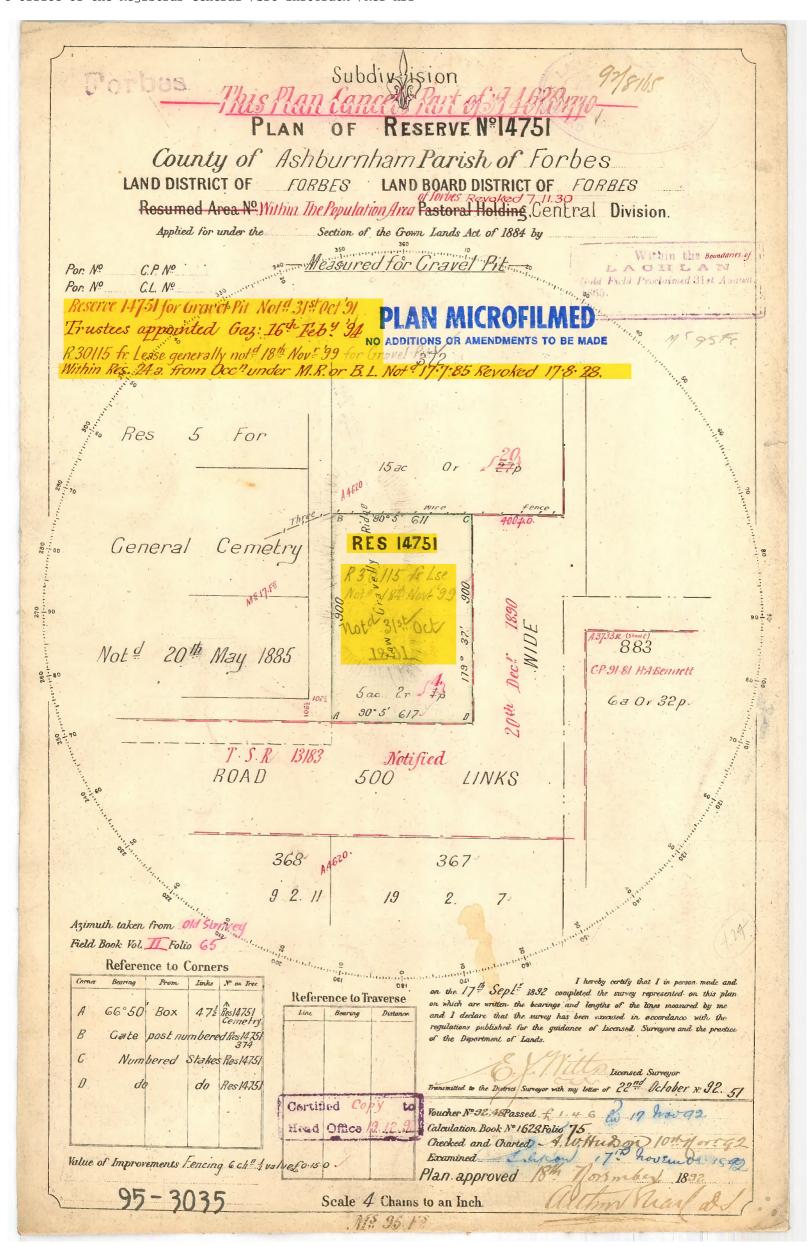
ASHBURNHAM

THIS PLAN WAS PREPARED SOLELY TO **IDENTIFY THE LAND ABOVE AND THE BOUNDARIES HAVE NOT BEEN** INVESTIGATED BY THE REGISTRAR GENERAL

THIS PLAN IS NOT A CURRENT PLAN IN TERMS OF S.7A CONVEYANCING ACT 1919

Drawn By: LC Signed Off: RW

Office: Head Office, Crown Lands Division, Newcastle



Amended Survey Survey Exd for Descp! Descp prepared Diag prepared \$31.10.93 M 1.11.93 47 124 11.90 (327.11.93 90.1034 Sale at Forbes 29th Dec. 1893 Por 367 PLAN OF PORTIONS 367 TO 372 Pastoral Holding Not bid for Enclosure County of Ashburnham Parish of Forbes Por 372 Special Area 19048 Procl 5th May 94 O Por: 372, C.P. 99. 8 of 29 th une by Rich da David Smith. Conf. 31 July 99 Sale at Forbes 21st August 95 LAND BOARD DISTRICT OF FORBES LAND DISTRICT OF FORBES Cancels part of A. 868:r: Por 367 Not bid for Within the Population Area of Forbes Revoked 7.11.30 Sale at Forbes 11th Septe 95 Parts of por 367,3688,372 within P. R. 24 Notified 14 July 85. Por 372 Not bid for. Pors 369, 370.8 371 Spl Area N. 12676 Proclaimed 29th Sept 90 369 CF 30 24 of 30 Off by William Haynes Confirm 370 CF 30-25 do Seo; Smith Confirm 371. CF 30-26 do Tho W. Sayers Confirm Sale at Forbes 16th May 1900 Por 367 Not bid for Confirmed 8.12.90 0 38 Confirmed 8.12.90 44 40 ac. 40 ac Por. 367 Special Area Nº 33006 Procle 3 Aug to Por: 367 C.P. 01. 17 of 5th Sept by Pat & Ryan Conf 4th Nor OI 372 part of AL 91 of 26 May for 700: 20: 31 Forfeited v Gazette 12 Dec. 1906. Forfaction of 6.2.07

Forfeiture Reversed vide Gazette 10 march 1907. Granted 16 th Oct 91 Nº 9751 372 Forfeited and Reserved from Sale & Lease Vide Gaz 4" Nove 14. Forfeiture reversed vide Gaz 9" Dec 1914 for Part of Por 372 within R 14751

Notified 315 Oct 91

Temp: irustees 200 April 93

Por 368 8 312

Chi La For 868 sold vide extern Res. 24a. from Occupation under MR. or B.L. Not 17.7.85 Revk. 17.8. 28. RESERVE 5 Rifle Par 372 C.P.99.8 Commissioners of the Government. Savings Bank of New South Wales Sales 33.6257 Sale compa 1500 x 20p Stokes Willia the boundaries of Reserve Nº 1317 from Lease & License & Note 6. 12.90. GENERAL CEMETERY Sale at Farbes 20th Sept 93 cancelled Br. 372 Fort bid for Por 367 for sole at Forbes 21 st Ap! '97 Not bid for Beserve (14751) Notified 20th May 1885 35.3.0 V 25ac. 883 617 5.1.1300-8 1.868r A 90 061 1003 90 065 10015 500 LINKS R 90.24 CP. 90.25 CP 90.76 370 369 371 378 CP 01.17 Joinet Janet 367 188 Take Lake 3.3019 Sheehan ? Black 3733 r. 880 3 Black Catherine Stokes Ryan 3.3.19 19.0.16 19 . 0 . 14 19.0.17 Cleared C\$22.2829 CS22.2830 C\$18.8432 874 3.0.1 43733r 873 & ROAD 1012 1015 1016 1019 W Brooke M. Reserve from BX. Azimuth taken Field Book Vol. 14 Folio 43 Reference to Traverse Reference to Corners survey represented on this plan, on which are written the bearings and lengths of the lines measured by me, and I declare that the survey has been executed in accordance with the regulations published for the guidance of Licensed 983 206 75 99 369 195"30" 51 369-370 15 30 65 \$ 370-371 4100 1321 368-367 28.0' Situated in the Lachlan Gold Field Value of Improvements. Nº 367 Fencing £ 51, Tank \$20, Clearing \$36 Total \$107 - District Surveyor Scale 8 Chains to an Inch. On others Nil

to wit.

(L.S.)

JERSEY,

Governor.

NEW SOUTH WALES, | Proclamation by His Excellency The Right Honourable VICTOR ALBERT GEORGE, EARL OF JERSEY, a Member of Her Majesty's Most Honourable Privy Council, Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, Governor and Commander-in-Chief of the Colony of New South Wales and its Dependencies.

N pursuance of the provisions of the 40th section of the Crown Lands Act of 1889, I, VICTOR ALBERT GEORGE, EARL OF JERSEY, Governor of the Colony of New South Wales aforesaid, with the advice of the Executive Council, do hereby proclaim that the following portion of Crown Land is declared to be set apart as an addition to the population area at Glen Innes :-

EASTERN DIVISION.

LAND DISTRICT OF GLEN INNES.

Within Ranger's Valley Holding, resumed area No. 198.

County of Gough, parish of Beardy Plains, containing an area of about 25 acres. The Crown Lands within the following boundaries: Commencing at the north-east corner of measured portion 97 of 105; acres; and bounded thence by part of the northern boundary of that portion bearing westerly to its intersection with the east boundary of the population area at Glen Innes, as re-proclaimed 11th December, 1886; thence by part of that east boundary bearing south to the intersection with the south-eastern boundary of portion 97 aforesaid; and thence by part of that boundary bearing north-easterly to the point of commencement,-plan catalogued G. 4,516-1,761.

Special area 14,666, proclaimed this day, includes the above.

[Ms. 91-7,443 Dep.]

Given under my Hand and Seal, at Government House, Sydney, this thirtieth day of October, in the year of our Lord one thousand eight hundred and ninety-one, and in the fifty-fifth year of Her Majesty's Reign.

By His Excellency's Command,

HENRY COPELAND.

[8738]

GOD SAVE THE QUEEN!

[9035]

Department of Lands, Sydney, 31st October, 1891.

RESERVE FROM SALE FOR GRAVEL PIT. H IS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for gravel pit, and is hereby reserved accordingly.

HENRY COPELAND.

CENTRAL DIVISION.

LAND DISTRICT OF FORBES.

Within the population area of Forbes.

No. 14,751. County of Ashburnham, parish of Forbes, containing an area of about 5; acres. The Crown Lands within the following boundaries: Commencing at the south-west corner of portion 372 of 20 acres 2 roods 31 perches; and bounded thence by the south boundary of that portion bearing south 89 degrees 55 minutes east 6 chains 17 links; thence by an eastern boundary of the same portion 372 bearing north 28 minutes west 9 chains; thence by a line bearing north 89 degrees 55 minutes west 6 chains 11 links; and thence by part of the west boundary of the first-mentioned portion bearing south 9 chains, to the point of commencement. [Ms. 91-5,901 Dep.]

[9036]

Department of Lands, Sydney, 31st October, 1891.

RESERVE FROM SALE FOR PUBLIC SCHOOL PURPOSES.

IS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for Public School purposes, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

LAND DISTRICT OF TAREE.

No. 14,716. County of Gloucester, parish of Topi Topi, containing an area of 8 acres. The Orown Lands within the boundaries of measured portion 84,—as shown on plan catalogued G. 2,482-1,497. [Ms. 91-8,162 Dep.]

Department of Lands, Sydney, 31st October, 1891.

RESERVE FROM SALE FOR CAMPING AND ACCESS TO WATER.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for camping and access to water, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

LAND DISTRICT OF PICTON.

No. 14,739. County of Westmoreland, parish of Colong, at Colong, containing an area of about 258 acres. The Crown Lands within the following boundaries: Commencing on the left bank of Colong Creek, at a point bearing north 15 degrees 45 minutes east 33% links from a gum-tree marked broad-arrow over 7; and bounded thence by a line east 38 chains 76 links; thence by a line north 52 chains 76 links; thence by a line west 64 chains 22 links to an eastern boundary of railway reserve 8,689, notified 23rd February, 1889; thence by a line forming part of that eastern boundary bearing south 7 minutes west 26 chains 88 links; thence by the left bank of Colong Creek downwards to the north-western corner of E. L. Moore's portion 1 of 49 acres; thence by the northern, eastern, and southern boundaries of that portion to the left bank of Colong Creek beforementioned; and thence by that creek downwards, to the point of commencement,—shown on plan catalogued W. 2.158-1,502. [Ms. 91-8,662 Dep.]

[9037]

Department of Lands, Sydney, 31st October, 1891.

RESERVE FROM SALE FOR PLANTATION AND CEMETERY EXTENSION.

IS Excellency the Governor, with the advice of the Recutive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for plantation and cemetery extension, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

LAND DISTRICT OF LISMORE.

No. 14,718. County of Rous, parish of Duncon, containing an area of 8 acres 2 roods 8 perches. The Crown Lands within the following boundaries: Commencing at the south-east corner of portion 29, parish of Duncon, county of Rous; and bounded thence by the main road from Lismore to the Tweed, being lines bearing south 12 degrees 42 minutes west 692 links, south 55 degrees 23 minutes west 229 links, south 78 degrees 38 minutes west 569 links, south 78 degrees 53 minutes west 339 links, south 78 degrees 43 minutes west 543 links, and south 22 degrees 11 minutes west 539 links; thence by a line west 74 links; thence by a line north 1,600 links to the south boundary of portion 29 aforesaid; thence east by part of that south boundary 150 links; thence by a line south 750 links; thence by a line east 721 links; thence by a line north 76 degrees 53 minutes east 440} links; thence by a line bearing north 78 degrees 42 minutes east 510 links; thence by a line bearing north 550 links to the south boundary of portion 29 aforesaid; and thence by that south boundaryeast 3 chains, to the point of commencement. [Ms. 91-8,407 Dep.]

[8808]

Department of Lands, Sydney, 31st October, 1891.

RESERVE FROM SALE FOR PUBLIC BUILDINGS.

IS Excellency the Governor, with the advice of the. Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for public buildings, and is hereby reserved accordingly.

HENRY COPELAND.

EASTERN DIVISION.

LAND DISTRICT OF YOUNG.

No. 14,749. County of Harden, parish of Wilkie, village of Wombat, containing an area of 5 acres 1 rood 14 perches. Orown Lands within the boundaries of allotments 1 to 10, inclusive, of section 8,—shown on plan catalogued W. 5-2,018. [Ms. 91-8,789 Dep.]

8706

WITHDRAWAL FROM ANNUAL LEASE FOR GRAVEL PIT.

PROCLAMATION

to wit. (L. S.)

BEAUCHAMP,

Governor.

NEW SOUTH WALES, | By His Excellency The Right Honourable WILLIAM, EARL BEAUCHAMP, Knight Commander of the Most Distinguished Order of Saint Michael and Saint George, Governor and Commander-in-Chief of the Colony of New South Wales and its Dependencies.

WHEREAS under the 108th section of the Crown Lands Act of 1884, power is given for the withdrawal from annual lease of any land required for any public purpose : And whereas Gravel Pit has been duly declared to be and the same is a public purpose under the provisions of section 4 of the said Act: And whereas it has become necessary to withdraw certain land from annual lease for the purpose aforesaid: Now, therefore, I, WILLIAM, EARL BRAUCHAMP, the Governor aforesaid, do, in pursuance of the power and authority in that behalf contained in the said 108th section of the said Act, hereby declare that the land hereunder described shall be and the same is hereby withdrawn from William Dickinson's Annual Lease 9,751, for Gravel Pit :-

CENTRAL DIVISION.

LAND DISTRICT OF FORBES.

Within the population area of Forbes.

County of Ashburnham, parish of Forbes, containing an area of about 5 acres. The Crown Lands within the following boundaries: Commencing at the south-west corner of portion 372 of 20 acres 2 roods 21 perches; and bounded thence by the south boundary of that portion bearing south 89 degrees 55 minutes east 6 chains 17 links; thence by an eastern boundary of that same portion 372 bearing north 23 minutes west 9 chains; thence by a line bearing north 89 degrees 55 minutes west 6 chains 11 links; and thence by part of the west boundary of the first-mentioned portion bearing south 9 chains, to the point of commencement

Reserved from lease generally as No. 30,115 this day. [Ms 99-6,790 Ind.]

Given under my Hand and Seal, at Government House, Sydney, this fifteenth day of November, in the year of our Lord one thousand eight hundred and ninetynine, and in the sixty-third year of Her Majesty's Reign.

By His Excellency's Command,

T. H. HASSALL.

[4505]

GOD SAVE THE QUEEN!

PROCLAMATION

NEW SOUTH WALES, I By His Excellency The Right Honourable to wit. WILLIAM, EARL BEAUCHAMP, Knight Commander of the Most Distinguished (L.S.) Order of Saint Michael and Saint George, Governor and Commander-in-Chief of the Colony of New South BEAUCHAMP, Governor. Wales and its Dependencies.

IN pursuance of the provisions of the Crown Lands Acts, I, WILLIAM, EARL BRAUCHAMP, Governor of the Colony of New South Wales aforesaid, with the advice of the Executive Council, do hereby proclaim the following surrendered area of land to be Crown Lands for the purposes of the Crown Lands Acts, and the same is hereby added to and now forms part of the Coolatai Occupation License No. 243, Central Division, and will be available for any applications under such Acts, subject to any proclamation, reservation, or notification which may be duly published :-

CENTRAL DIVISION.

LAND DISTRICT OF WARIALDA.

County.	Parish.	Portion.	Area.	Cat. No. of Plan.	
Burnett	Codrington	20	a. r. p. 56 0 0	B. 1,011-1,951	

The above area is this day reserved from sale for travelling stock and camping as No. 29,745. [Ms. 99-8,920 Dep.]

Given under my Hand and Seal, at Government House, Sydney, this fifteenth day of November, in the year of our Lord one thousand eight hundred and ninetynine, and in the sixty-third year of Her Majesty's

By His Excellency's Command,

T. H. HASSALL.

[4476]

GOD SAVE THE QUEEN!

WITHDRAWAL FROM OCCUPATION LICENSE FOR TRAVELLING STOCK AND CAMPING.

PROCLAMATION

NEW SOUTH WALES,) By His Excellency The Right Honourable to wit. WILLIAM, EARL BEAUCHAMP, Knight Commander of the Most Distinguished Order of Saint Michael and Saint (L.S.) George, Governor and Commander-in-Chief of the Colony of New South BEAUCHAMP, Wales and its Dependencies.

WHEREAS under the 108th section of the Crown Lands Act of 1884, power is given for the withdrawal from occupation license of any land required for any public purpose : And whereas travelling stock and camping have been duly declared to be and the same are public purposes under the provisions of section 4 of the said Act: And whereas it has become necessary to withdraw certain land from occupation license for the purposes aforesaid: Now, therefore, I, WILLIAM, EARL BEAUCHAMP, the Governor aforesaid, do, in pursuance of the power and authority in that behalf contained in the said 108th section of the said Act, hereby declare that the land hereunder described shall be and the same is hereby withdrawn from occupation license No. 785, held by The Australian and New Zealand Mortgage Co. (Limited), for travelling stock and camping :-

CENTRAL DIVISION.

LAND DISTRICT OF NARRANDERA.

Within occupation license No. 785.

County of Cooper, parish of Bolaro, containing an area of 640 acres. The Crown Lands within the boundaries of measured portion 72,—as shown on plan catalogued C. 1,366-1,804.

Note.—Includes reserve 28,855 from sale for travelling stock and camping, notified 21st January, 1899, and is reserved from license and lease generally as No. 30,114, notified this day. [Ms. 99-7,143 Dep.]

Given under my Hand and Seal, at Government House, Sydney, this fifteenth day of November, in the year of our Lord one thousand eight hundred and ninetynine, and in the sixty-third year of Her Majesty's Reign.

By His Excellency's Command,

T. H. HASSALL.

[4509]

GOD SAVE THE QUEEN!

PROCLAMATION

NEW SOUTH WALES,) By His Excellency The Right Honourable WILLIAM, EARL BEAUCHAMP, Knight to wit. Commander of the Most Distinguished Order of Saint Michael and Saint (L.S.) George, Governor and Commander-in-Chief of the Colony of New South Wales and its Dependencies. BEAUCHAMP. Governor.

N pursuance of the provisions of the Crown Lands Acts, I, WILLIAM, EARL BEAUCHAMP, Governor of the Colony of New South Wales aforesaid, with the advice of the Executive Council, do hereby proclaim the following surrendered area of land to be Crown Lands for the purposes of the Crown Lands Acts, and the same will be available for any applications under such Acts, subject to any proclamation, reservation, or notification which may be duly published :-

EASTERN DIVISION.

LAND DISTRICT OF TENTERFIELD.

County.	Parish.	Portion.	Area.	Cat. No. of Plan.	
Gough	Welling- ton Vale.	Part of 20	a. r. p. 55 3 10	Ms. 693 Ac.	

The above is this day reserved from sale for camping as No. 30,162. [Aln. 99-3,942]

Given under my Hand and Seal, at Government House, Sydney, this fifteenth day of November, in the year of our Lord one thousand eight hundred and ninetynine, and in the sixty-third year of Her Majesty's

> By His Excellency's Command, T. H. HASSALL.

[4478] GOD SAVE THE QUEEN! [4684]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LEASE GENERALLY FOR GRAVEL PIT.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby temporarily reserved and exempted from lease generally for gravel pit.

T. H. HASSALL.

CENTRAL DIVISION.

LAND DISTRICT OF FORDES.

Within the population area of Forbes, and within the area withdrawn this day from annual lease No. 9,751, William

No. 30,115. County of Ashburnham, parish of Forbes, containing an area of about 5½ acres. The Crown Lands within the following boundaries: Commencing at the south-western corner of portion 372 of 20 acres 2 roods 21 perches; and bounded thence by the south boundary of that portion bearing south 89 degrees 55 minutes east 6 chains 17 links; thence by an eastern boundary of that same portion 372 bearing north 23 minutes west 9 chains; thence by a line bearing north 89 degrees 55 minutes west 6 chains 11 links; and thence by part of the west boundary of the first-mentioned portion bearing south 9 chains, to the point of commencement.

The above is identical with reserve 14,751 from sale for gravel pit, notified 31st October, 1891. [Ms. 99-6,790 Ind.]

[4685]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LEASE GENERALLY FOR PUBLIC SCHOOL PURPOSES.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby temporarily reserved and exempted from lease generally for Public School purposes.

T. H. HASSALL.

EASTERN DIVISION.

LAND DISTRICT OF MUDGEE.

No. 30,135. County of Phillip, parish of Wilbetree, containing an area of 3 acres. The Crown Lands within the boundaries of measured portion 81a,-as shown on plan catalogued P. 90-1,978.

The above is reserved from sale as No. 30,134, notified this [Ms. 99-6,976 Ind.]

[4686]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LEASE GENERALLY FOR THE USE OF ABORIGINES.

HIS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby temporarily reserved and exempted from lease generally for the use of aborigines.

T. H. HASSALL.

EASTERN DIVISION.

LAND DISTRICT OF RYLSTONE.

Within the area withdrawn this day from annual lease No. 7,623, J. S. Harrison.

No. 30,112. County of Roxburgh, parish of Crudine, contain ing an area of about 9 acres. The Crown Lands within the following boundaries: Commencing on the left bank of Crudine Creek, at the north-west corner of portion 60 of 40 acres; and bounded thence by part of the west boundary of that portion south to the northern side of the road to Ilford; thence by that side of that road westerly, to a point north of the northeast corner of portion 89; thence by a line north to the left bank of Crudine Creek aforesaid; and thence by that bank of

that creek upwards, to the point of commencement.

The above is included in reserve 14,711 from sale for water supply and mining, notified 7th November, 1891.
[Ms. 99-6,712 Dep.]

[4690]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LICENSE AND LEASE GENERALLY FOR TRAVELLING STOCK AND CAMPING.

Executive Council, directs at to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby towards. and is hereby temporarily reserved and exempted from license and lease generally for travelling stock and camping.

T. II. HASSALL.

CENTRAL DIVISION.

LAND DISTRICT OF NARRANDERA.

Within the area withdrawn this day from occupation license No. 785.

No. 30,114. County of Cooper, parish of Bolaro, containing an area of 640 acres. The Crown Lands within the boundaries of measured portion 72,—as shown on plan catalogued C. 1,366-

Norg.-Includes reserve 28,855 from sale for travelling stock and camping, notified 21st January, 1829. [Ms. 99-7,143 Dep.]

[4688]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LICENSE AND LEASE GENERALLY FOB RACECOURSE.

IS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby temporarily reserved and exempted from license and lease generally for racecourse.

T. H. HASSALL.

CENTRAL DIVISION.

LAND DISTRICT OF URANA.

Within the area withdrawn this day from the leasehold area of Brookong Holding No. 473.

No. 30,094. County of Urana, parish of Lockhart, containing an area of 72 acres. The Crown Lands within the boundaries of measured portion 72,—as shown on plan catalogued U 2,738—

Note.-Includes parts of travelling stock reserve 991, forest reserve 26,578, water reserve 821, and reserve 150 from lease revoked this day.

Reserve 30,093 from sale for racecourse, notified this day, includes the above. [Ms. 99-7,159 Dep.]

[4689]

Department of Lands, Sydney, 18th November, 1899.

RESERVE FROM LICENSE AND LEASE GENERALLY FOR ROADWAY.

IS Excellency the Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 39th section of the Crown Lands Act of 1889, the land hereunder described shall be and is hereby temporarily reserved and exempted from license and lease generally for roadway.

T. H. HASSALL.

CENTRAL DIVISION.

LAND DISTRICT OF WARREN.

Within the area withdrawn this day from annual lease 23,628, John W. Lamb.

No. 30,129. County of Gregory, parish of Terrigal, containing an area of about 20 acres. The Crown Lands within a designed road (2 chains wide): Commencing at the southeastern corner of portion 12 of 63 acres; and bounded thence on the west by part of the eastern boundary of that portion bearing north to the northern side of the reserved road through the portion; thence on the north by a line bearing easterly to the western extremity of the south boundary of portion 22 of 555 acres, parish of Merri.

[Ms. 99-5,425 Ind.]

(8508)

Sydney, 14th February, 1975.

REVOCATION OF NOTIFICATION OF CLASSIFIED AREA

IT is hereby notified that, in pursuance of the provisions of the Crown Lands Consolidation Act, 1913, the notification of a classified area is hereby revoked in respect of the area particularized hereunder.

M. A. MORRIS, Minister for Lands.

Land District	Classified Area	Date of Notification	Parish	County	City	Area	Part Revoked	Papers No.
Newcastle	Special Area 90070 (for conditional purchase).	24 Mar., 1972	Newcastle (N.P.R.).	Northum- berland.	Newcastle	sq metres 569 (including easement).	Portion 2737 ,.	T. 75-60

(8587)

Sydney, 14th February, 1975.

REVOCATION OF NOTIFICATIONS OF CLASSIFIED AREAS

IT is hereby notified that, in pursuance of the provisions of the Crown Lands Consolidation Act, 1913, the notifications of classified areas are hereby revoked in respect of the areas particularized hereunder.

M. A. MORRIS, Minister for Lands.

Land District	Class of holding for which the land was set apart	Date of Notification	Parish	County	Shire	Area	Part Revoked	Papers No.
Young	Suburban Holding Are No. 2933,	a 6 Feb., 1959	numba.	Monteagle Bendick Murr	Burran- gong.	square metres 7 247	The whole	L.B. 56-343 T. 74-7197
Gundagai	Suburban Holding Are No. 3439.	a 27 Aug., 1965	Jugiong .	. Harden Town of Jugion	Demondrille	5 058	Design blocks A, B, D, and E, being also allotments 9 and 10, section 39, and allotment 10, section 3, and closed road.	

(8506)

Sydney, 14th February, 1975.

REVOCATION OF RESERVES FROM SALE

IT is hereby notified that under the provisions of section 30 of the Crown Lands Consolidation Act, 1913, the reserves from sale hereunder described are hereby revoked.

M. A. MORRIS, Minister for Lands.

Land District	I	Reserve No.	Purpose	Date of Notification	Parish	County	Shire, etc.	Area	Part Revoked	Papers No.
Kempsey	.,	82773	For use of Aborigines	26 Aug., 1960	Beranghi (Town of We		Municipality of Kempsey.	sq metres 1 619	The whole; being allot- ments 11 and 14, section 23.	
Warialda	••	367	For travelling stock	1 July, 1874	Coolatai	Burnett	Ashford	44-01	Part within portion 64 and reserved road within portion 64.	
Warialda Narrabri Narrabri	::	369A 61801 81609	For travelling stock For public recreation For future public requirements.	5 Jan., 1875 4 April, 1930 22 May, 1959	Cooma	Burnett White White	Manufalmaller	28·2 5·466 1·773		T. 73-5876 T. 74-160 T. 73-7665
Forbes	•••	14751	For gravel pit	18 Nov., 1899	Forbes	Ashburnham		2-246	The whole	T. 74-9192 (H.S.).
Moss Vale		51	For water reserve	14 Oct., 1878	Berrima	Camden	Mittagong	10-09	The whole; being portion 277.	T. 75-2

(8650)

Sydney, 14th February, 1975.

REVOCATION OF RESERVE FROM SALE, LEASE, ETC.

IT is hereby notified that under the provisions of section 30 of the Crown Lands Consolidation Act, 1913, the reserve from sale, lease, etc., hereunder described is hereby revoked.

M. A. MORRIS, Minister for Lands.

Land District	Reserve No.	Purpose	Date of Notification	Parish	County	Shire	Area	Part Revoked	Papers No.
Ryistone	4759	For water and camping reserve.	3 Dec., 1887	Dungeree	Phillip	Ryistone	sq metres 2 400	Part: being lot 1, D.P. 249159.	R. 73-884

[10373]

Department of Lands, Sydney, 20th December, 1890.

RESERVES FROM SALE FOR TRAVELLING STOCK. IS Excellency the Lieutenant-Governor, with the advice of the Executive Council, directs it to be notified that, in pursuance of the provisions of the 101st section of the Crown Lands Act of 1884, the land specified in the Schedule appended hereto shall be reserved from sale for travelling stock, and is hereby reserved accordingly.

JAMES N. BRUNKER.

EASTERN DIVISION.

LAND DISTRICT OF TAMWORTH.

No. 13,176. County of Parry, paris's of Nundle, containing an area of about 225 acres. The Crown Lands within the following boundaries: Commencing on the right bank of Oakenville Creek, at a point where the road from Nundle to Hanging Rock crosses it; and bounded thence by that road bearing generally north-easterly and south-easterly till it meets the north-easterly prolongation of the north-western boundary of portion 67 of 1 acre 1 rood 3 perches; thence by a line partly forming that north-western boundary bearing south-westerly to Oakenville Creek aforesaid; and thence by that creek downwards, to the point of commencement.

The above is in lieu of part of travelling stock reserve 339, cancelled this day. [Ms. 90-14,935]

CENTRAL DIVISION.

LAND DISTRICT OF FORBES.

Within the population area of Farbes.

No. 13,181. County of Ashburnham, parish of Forbes, containing an area of about 65 acres. The Crown Lands within the following boundaries: Commencing on the south-west corner of portion 792 of 1 acre 1 rood 6 percher; and bounded thence by a line in part forming the western boundaries of that portion and of portions 730, 712, 711, 704, and 703, bearing northerly to the south-west corner of portion 696; thence by lines in part forming the southern boundaries of that portion and of portions 697, 698, 699, 750, 760, 761, 761, 765, and 768, bearing easterly to the south-east corner of the latter portion ; thence by a line forming the eastern boundaries of portions 768 and 767 bearing northerly to the southern side of the road from Forbes to Orange; thence by that side of that road being a line forming the northern boundaries of portions 770 and 771 bearing easterly to the north-east corner of the latter portion; thence by a line in part forming the eastern boundaries of that portion and of portions 772 and 773 bearing southerly to the north-east corner of portion 654; thence by a line in part forming the northern boundaries of porti ns 654, 652, 610, 648, 646, 644, 642, and 640, bearing westerly to the north-east corner of portion 746; thence by the east toundaries of the latter portion and of portion 745 southerly to the south-east corner of the latter portion; thence by the south boundaries of that portion and of portions 744, 743, and 7:2 westerly to the south-west corner of the latter portion; thence by a line in part forming the western boundaries of portions 741, 740, and 736 southerly to the south-west corner of the latter portion; and thence by a line in part forming the south-eastern boundaries of portions 802, 793, and 792 aforesaid bearing south-westerly, to the point of commencement.

Includes part of reserve 5 069 for railway purpores, notified 23rd December, 1887, revoked this day.

[Ms. 90-8,650]

Within the population area of the town Forbes.

No. 13,182. County of Ashburnham, parish of Forbes, containing an area of about 78 acres. The Orown Lands within the following boundaries: Commencing at the south-east corner of portoin 334, William Thomas' 20 acres; and bounded thence by a line in part forming the east boundaries of that portion and of portions 335 to 338 inclusive bearing north to a point on the south boundary of portion 342; thence by part of the latter boundary and the south and east boundari tion 343 bearing east and north to the north-east corner of the latter portion; thence by a line forming part of the south-western side of the road from Gunningbland to Forbes bearing south-easterly to the north-east corner of reserve 9,596 for cemetery, notified 31st August, 1889; thence by the southeastern boundary of that reserve and its pr.longation south-westerly to a point north of the north-east corner of portion 732, Gottfried Schiller's 2 acres; thence by a line south to that corner; thence by the north and west boundaries of that portion and the west boundary of portion 731 bearing west and south to the south-west corner of the last-mentioned portion; and thence by a line forming part of north side of a road 1 chain wide bearing west, to the point of commencement.

Includes reserve 9,596 for cometery, notified 31st August, 1889, and is in lieu of reserve 1,008, cancelled this day.

[Ms. 20-8,650]

Within the population area of the town of Forbes.

No. 13,183. County of Ashburnham, parish of Forbes, containing an area of about 170 acres. The Crown Lands within the following boundaries: Commencing on the east boundary of portion 378, Alfred Stokes' 27 acres 2 rood 20 perches, at a p int west of the south-west corner of portion 371; and bounded thence by lines in part forming the south boundaries of that portion and of portions 370 and 369, and the east boundary of the last-mentioned portion bearing east and north to a point 1 chain north from the north-east corner of that portion; thence by lines in part forming the south and east boundaries of portion 372, and the east boundaries of portions 389 and 390 bearing east, north, east, and north to the north-east corner of the last-mentioned portion; thence by a line forming part of the south boundary of portion 787 bearing east to its southeast corner; thence by a line south to a point on the north boundary of portion 884; thence by part of the latter boundary the north and west boundaries of portion 883, and part of the west boundary of portion 882, being lines bearing west and south to a point east of the north-east corner of portion 367; thence by lines in part forming the north boundary of the latter portion, and the north and west boundaries of portion 363 bearing west and south to a point on the north boundary of portion 1,015; thence by a live in part forming part of the north boundary of that portion and the north boundaries of portions 1,012 and 362 to 366 inclusive, bearing west to a point on the east boundary of portion 378 aforesaid; and thence by a line forming part of that boundary bearing north, to the point of commencement. [Ms. 90-8,650]

Within the population area of the town of Fortes.

No. 13,184. County of Ashburnham, parish of Forbes, containing an area of about 370 acres. The Crown Lands within the following boundaries: Commencing on the northern side of the road from Condobolin to Forbes, at the south-east corner of portion 1.132 of 1 sere 2 roods 16 perches; and bounded thence by the eastern and northern boundaries of that portion and the westerly prolongation of the latter boundary bearing northerly and westerly to a point on the eastern boundary of portion 305 of 2 acres; thence by part of the latter boundary, the castern and southern boundaries of portion 306, and a line in part forming the southern boundary of portion 302 and part of the southern boundary of portion 35 (164) bearing southerly and westerly to a point north of the north-east corner of reserve 4,335, notified 5th November, 1887; thence by a line and part of the eastern boundary of that reserve bearing southerly to the north-east corner of portion 307; thence by lines in part forming the north-eastern boundaries of that portion and of portions 250, 249, 248, 247, 313, 314, and 315 of water reserve 4,410, notified 5th November, 1887, and of portions 503, 502, and 501 bearing in south-easterly directions to the south-eastern corner of the last-mentioned portion; thence by the southeasterly prolongation of the north-eastern boundary of that postion bearing south 22 degrees east 9 chains 44 links; thence by a line bearing south 71 degrees 57 minutes east 63 chains 75 links to a post marked broad-arrow over T S.R.; thence by a line bearing cast 19 chains 711 links; thence by a line bearing north 10 chains to the south-cast corner of portion 358; thence by a line forming the south boundaries of that portion and of portions 1,126, 1,195, and 256, bearing west to the south-west corner of the latter portion; thence by a line bearing north 71 degrees 57 minutes west 62 chains 501 links to a post marked broad-arrow over T.S.R., on the north-western side of a road 1 chain 50 links wide; thence by a lire bearing north 22 degrees west 61 chains 671 links to a post marked broad-arrow over TSR., on the southern side of a road I chain 50 links wide; thence by a line forming part of that side of that road bearing north 89 degrees 59 minutes west 26 chains 761 links; thence by a line bearing north 1 minute east 25 chains 63 links to the westernmost south-west corner of portion 852; thence by a line bearing north 8 degrees 57 minutes west, forming the western boundary of that portion and its northerly prolongation, to a point on the southern boundary of portion 1,125; and thence by a line forming part of the latter boundary and the southern boundaries of portions 1,126 to 1,131 inclusive bearing westerly, to the point of commencement.

Includes reserve 1,690, notified 8th May, 1892, for road

metal, and is in lieu of reserve 10,0\$7, and part of travelling stock reserve 618, cancelled this day, - partly shown on plan catalogued Me. 69 Fs.

Ms. 90-8,650]

Within the population area of the town of Fortes.

No. 13,185. County of Ashburaham, parish of Forbes, containing an area of about 1,450 acres. The Crown Lands within the following boundaries: Commencing at the south-west corner of portion 54 of 320 acres; and bounded thence by the prolongation of the couthern boundary of that portion bearing westerly 44 chains; thence by a line bearing south-westerly about 8 chains 50 links to the north-east corner of portion 1,229 of 2 acres; thence by the eastern and south-eastern boundaries of that portion bearing southerly and south-westerly to its south-west corner; thence by a line westerly to the southeast corner of portion 415; thence by the south-eastern boun-

- 4th. Immediately after the bidding on the lot is concluded, the name and place of residence of the purchaser will be entered by the Agent in the Sale List, and if any person declines to state the purchaser's name at once he will be held to have failed to comply with Condition 3 and will not be allowed to sign the list, but the lot will be put up again. If previous to such entry, any questions or dispute arise between the seller and bidders or amongst the bidders themselves, the lot in question shall be put up again; subsequently to such entry no dispute whatever can be admitted.
- 5th. The balance of the purchase money is to be paid to the Under Secretary for Lands in Sydney, within three calendar months from the day of sale, in which case no interest shall be charged; or in three equal annual instalments, the first of which shall be payable at the end of one year from the day of sale, together with interest at the rate of six and three-quarter per centum per annum on the total outstanding balance. The whole or any number of instalments of purchase money may be paid at any time; if the balance of purchase money be not paid within three calendar months from the day of sale interest shall be charged from such day of sale. In the event of any annual instalment and interest accrued on the outstanding balance not being paid within three months of the due date, the Minister may declare forfeited all moneys paid and the sale lapsed.
- 6th. If at any time before the issue of the Deed of Grant it is found that at the time of the sale the land, or any part thereof, was legally occupied under the provisions of the Mining Acts and Regulations then in force, the Minister may annul the sale, and the purchaser shall not be entitled to any compensation other than the refund of any money paid by him to the Crown in connection with such purchase.
- 7th. Prior to the issue of the Deed of Grant no resale or dealing of any kind, except by way of mortgage or discharge of mortgage, will be recognized by the Department. Deeds of Grant will issue in the names of purchasers entered as such in the Sale List except where a mortgage has been registered at the Department.
- 8th. Deed of Grant will be completed and issued as soon as practicable after payment in full of the purchase money, deed fee at the prescribed rate, and fixed stamp duty, and will be delivered to the Grantees by the Registrar General. The lot will be granted to the purchaser by Deed Poll under the hand of His Excellency the Governor and the Great Seal of the State, subject to such reservations as may be deemed expedient for the public benefit.
- 9th. Persons having affixed their signatures to the Sale List in token of their having become purchasers (or agents for purchasers) of the lot to which their signatures are respectively so affixed, will be held to have previously obtained all necessary information, and will not be entitled to allege ignorance or any other cause for their not fulfilling all and every obligation incumbent upon them by these Conditions.

Papers Ten 71-2292, L.B. 71-44. Plan W. 2335-2091.

(3109)

Sydney, 14th January, 1972.

REVOCATION OF RESERVES FROM SALE, LEASE, Etc.

IT is hereby notified that under the provisions of section 30 of the Crown Lands Consolidation Act, 1913, the reserves from sale, lease, etc., hereunder described, are hereby revoked.

T. L. LEWIS, Minister for Lands.

Land District		Reserve No.	Purpose	N	Date of		Parish		County	Shire, etc.	Area	Part Revoked	Papers No.
Bathurst	**	68762	For soil conservation	,, 3	3 Nov.,	1939	Blenheim	•	Westmore-	Oberon	ac. r. p. 154 0 20	The whole; portion 213	T. 72-34
Forbes		13183	For travelling stock				Forbes		Ashburn- ham.	Jemalong Shire (partly) and Forbes Municipality (partly).		The whole	P. 70-1569
Do		19035	do do do	5	May,	1894	do		do	Forbes Munici- pality.	4 1 0 (about).	The whole	do
Do		60897	For travelling stock a camping.	nd 18	3 Jan.,	1929	do	•	do	Jemalong Shire (partly) and Forbes Municipality (partly).	26 0 0 (about).	The part withdrawn from Pastures Protection Board control this day.	
Hay	••	29521	do do do	24	June,	1889	Pevensey	ü	Waradgery	Hay	560 0 0 (about).	The whole	T. 72-17

(3108)

Sydney, 14th January, 1972.

REVOCATION OF A RESERVE FROM SALE, LEASE, Etc.

IT is hereby notified that under the provisions of section 30 of the Crown Lands Consolidation Act, 1913, the reserve from sale, lease, etc., hereunder described, is hereby revoked.

T. L. LEWIS, Minister for Lands.

Land District	Reserve No.	Purpose	Date of Notification	Parish	County	Shire, etc.	Area	Part Revoked	Papers No.
Wilcannia .	. 64899	For commonage (addition)	9 Nov., 1934	Wambah	Livingstone	Central Darling.	ac. r. p. 10 0 0 (about),	Part within portion 68	W.L.C. 71- 348.

No. 3, 14th January, 1972-5

Land District and Shire-Boorowa

Frederick Vincent Fahey and Eileen Mary Fahey. Lot 1, D.P. 254231; Frederick Gerard Fahey and Colleen Veronica Fahey. Lot 2, D.P. 254231, Parish and Town Boorowa, County King. Rds 76-1500.

Land District and Shire-Tenterfield

Cecil James Hutchings. Lot 1, D.P. 254068, Parish Tenter-field, County Clive. Rds 76-1515.

Land District-Quirindi; Shire-Tamarang

Colleen Frances Saunders, Lot 1, D.P. 254186, Parish Borambil, County Buckland. Rds 76-1585.

Land District-Goulburn; Shire-Mulwaree

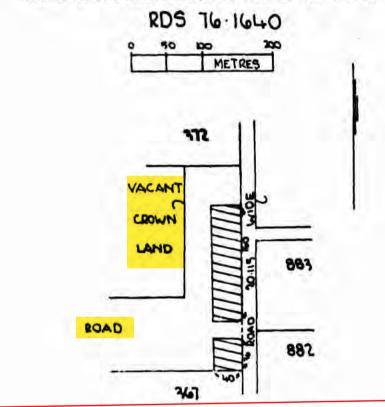
Dudley James Groves and Vilma Lawrence Groves. Lot 1. D.P. 254229, Parish Ryhanna, County Argyle. Rds 76-1587.

Land District-Maitland; City-Greater Cessnock

Roads (part Clift Street) between Florence Street and Austral Street (Walker Street) between Florence Street and Austral Street. (part Anvil Street) between Florence Street and Orient Street, (part Hall Street) generally southeast of portions 212, 211, allotments 6 and 7, section 39, allotments 6 and 7, section 40 and allotments 6 and 7, section 41, and within sections 36, 37, 38, 39, 40 and 41, Town Greta, Parish Branxton, County Northumberland. Rds 76-1631.

Land District and Municipality-Forbes

Roads at North Forbes shown by hatching on diagram hereunder, Parish Forbes, County Ashburnham. Rds 76-1640.



Land District and Shire-Mudgee

Owen Wilkie Nicol, John William Hawdon and Edward John Brigden. Lot 1, D.P. 254314, Parish Cope, County Bligh. Rds 77-13.

Road northeast of portions 431, 432, 433 and 434; road northeast of portions 437, 438, 439 and 440; road northeast of portions 443, 444, 445, 446, 447 and 448, at Gulgong, Parish Gulgong, County Phillip. 76-1530.

(7924)

Sydney, 17th June, 1977.

DECLARATION OF ROADS TO BE PUBLIC ROAD UNDER PROVISIONS OF THE PUBLIC ROADS ACT, 1902

IN pursuance of the provisions of section 18, Public Roads Act, 1902, the roads hereunder described are declared to be public road and dedicated to the public accordingly.

W. F. CRABTREE, Minister for Lands.

Descriptions

Land District and Shire-Kempsey

Parish Arakoon, County Macquarie, at South West Rocks. The roads R. 33891-1603 and R. 34896-1603. (Council's reference: R103.) Rds 77-400.

Note: Dedication is limited to the surface and to a depth of 20 metres below the surface.

Land District-Bellingen; Shire-Nambucca

Parish and Town Nambucca, County Raleigh. Part Newman Street, from Palmer Street to the easterly prolongation of the southern boundary of portion 393. (Council's reference: S 22.) Rds 77-460.

Note: Dedication is limited to the surface and to a depth of 20 metres below the surface.

Land District-Albury; Shire-Hume

Parish Jindera, County Goulburn. The southwesternmost 1 200 metres of the road separating portions 23 and 21 from portions 14 and 15. (Council's reference: 1/77.) Rds 77-464.

Land District-Corowa; Shire-Hume

Parish Quat Quatta, County Hume. The northernmost 1 015 metres of the road separating portion 32 from portions 37 and 36; the northernmost 315 metres of the road separating portion 39 from portion 125. (Council's reference: 2/77.) Rds 77-465.

(7923)

Sydney, 17th June, 1977.

NOTIFICATION UNDER THE PUBLIC ROADS ACT, 1902, OF RESUMPTIONS AND WITHDRAWALS OF LANDS FOR ROADS; RESUMPTIONS AND WITH-DRAWALS OF SEVERED LANDS; OF DECLARA-TION OF ROADS TO BE PUBLIC ROADS; AND OF CLOSING OF ROADS

IN pursuance of the provisions of the Public Roads Act, 1902, the lands hereunder described are resumed or withdrawn for road; such roads and the additional roads particularized hereunder are hereby declared to be public roads and dedicated to the public accordingly (except where otherwise stated); the lands hereunder described are resumed or withdrawn as severed lands; and the roads specified are hereby closed.

W. F. CRABTREE, Minister for Lands.

Descriptions

Parish Yarrabandini, County Dudley, Land District and Shire Kempsey

Deviation and widening of road through portions 115 and 236, D.P. 254022. (Council's reference: R73/52.) Rds 76-1643.

Lands resumed for road: Lots 1 and 2.

Titles affected and areas resumed: C.G. 4524-124 (6 870 square metres); and C.G. 7118-63 (7 160 square metres).

Roads closed: Lots 3 and 4.

Additional road dedicated: Lot 5.

Parish Lewis, County Clive, Land District Glen Innes, Shire Severn

Widening of road within portions 44, 32 and 23, D.P. 254076. Rds 76-1717.

Lands resumed for road: Lots 1 to 4.

Titles affected and areas resumed: Conditional Lease 1912-2, Glen Innes—Lots 1 and 2 (3 359 square metres); Conditional Lease 1907-25, Glen Innes—Lot 3 (579 square metres); and Conditional Lease 1908-13, Glen Innes—Lot 4 (3 556 square metres).

Closed road: Lot 5.

Parish, Land District and City Newcastle, County Northumberland

Widening of Hebburn Street, Hamilton, at the Skelton and Everton Streets intersections, D.P. 584429. (Council's reference: 408/321.) Rds 77-252.

Lands resumed for road: Lots 2 and 3.

Titles affected and areas resumed: C.T. 13110-144 (the whole); and C.T. 13110-145 (the whole).

Note: Resumption is limited to the surface and to a depth of 20 metres below the surface.

(7937)

Sydney, 17th June, 1977.

RESERVE FROM SALE

IN pursuance of the provisions of section 28, Crown Lands Consolidation Act, 1913, I declare that the Crown land hereunder described shall be reserved from sale for the public purposes hereinafter specified and is thereby reserved accordingly

W. F. CRABTREE, Minister for Lands.

FOR FUTURE PUBLIC REQUIREMENTS

Land District-Cooma; Shire-Monaro

No. 90800, Parish Wise, County Beresford, area 326.6 hectares, excluding roads, being portions 8, 29, 30 and 31. Ten. 77-1758.

HEAD OFFICE

1 Prince Albert Road, Queens Square (GPO Box 15), Sydney NSW 2000 Phone: (02) 9236 7764 Fax: (02) 8236 7081

RESERVATION OF CROWN LAND

Pursuant to section 87 of the Crown Lands Act 1989, all the Crown land covered by Reserve No. 1011448 in the parish specified in Column 1 of the Schedule hereunder is reserved for the public purpose of Future public requirements as specified opposite thereto in Column 2 of the Schedule.

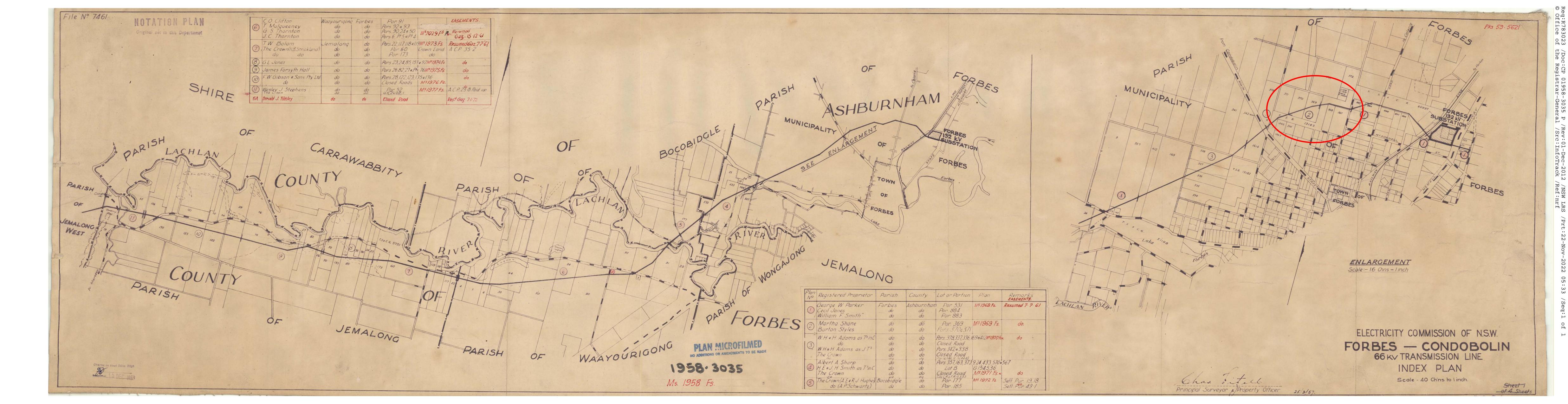
Note: Reserve No. 1011448 for the public purpose of future public requirements is revoked this day.

File No: LANDS 06/138

TONY KELLY, M.L.C., Minister for Lands

		SCHEDULE			
COLUMN 1 (Parish/County) BANNABY / ARGYLE	COLUMN 2 (Reserve No) 750001	COLUMN 1 (Parish/County) BAW BAW / ARGYLE	COLUMN 2 (Reserve No) 750002	COLUMN 1 (Parish/County) BILLYRAMBIJA / ARGYLE	COLUMN 2 (Reserve No) 750003
BORO / ARGYLE	750004	BOURKE / ARGYLE	750005	BREADALBANE / ARGYLE	750006
BUNGONIA / ARGYLE	750007	COLLECTOR / ARGYLE	750008	COOKBUNDOON / ARGYLE	750009
COVAN / ARGYLE	750010	CULLULLA / ARGYLE	750012	CURRAWANG / ARGYLE	750013
EDEN FOREST / ARGYLE	750014	GOULBURN / ARGYLE	750015	GUINEACOR / ARGYLE	750017
GUNDARY / ARGYLE	750018	GURRUNDAH / ARGYLE	750019	INVERARY / ARGYLE	750020
JERRALONG / ARGYLE	750021	JERRARA / ARGYLE	750022	KERRAWARY / ARGYLE	750023
MANGAMORE / ARGYLE	750028	MARULAN / ARGYLE	750029	MILBANG / ARGYLE	750031
MULLENGULLENGA / ARGYLE	750032	MULWAREE / ARGYLE	750033	MUMMEL / ARGYLE	750034
MUTMUTBILLY / ARGYLE	750035	NADGIGOMAR / ARGYLE	750036	NARRANGARRIL / ARGYLE	750037
NATTERY / ARGYLE	750038	NERRIMUNGA / ARGYLE	750039	NORRONG / ARGYLE	750040
OALLEN / ARGYLE	750041	PEJAR / ARGYLE	750042	POMEROY / ARGYLE	750043
QUIALIGO / ARGYLE	750044	RHYANA / ARGYLE	750045	STRATHAIRD / ARGYLE	750046
TARAGO / ARGYLE	750047	TARLO / ARGYLE	750048	TERRANNA / ARGYLE	750049
TOWRANG / ARGYLE	750050	TURRALLO / ARGYLE	750051	UPPER TARLO / ARGYLE	750052
URINGALLA / ARGYLE	750053	WAYO / ARGYLE	750054	WILLEROO / ARGYLE	750056
WOLOGORONG / ARGYLE	750057	YARRALAW / ARGYLE	750059	ADOWA / ARRAWATTA	750060
ALPINE / ARRAWATTA	750061	ANDERSON / ARRAWATTA	750062	ARTHURS SEAT / ARRAWATTA	750063
ASHBY / ARRAWATTA	750064	ASHFORD / ARRAWATTA	750065	ASTLEY / ARRAWATTA	750066
ATHOL / ARRAWATTA	750067	BANNOCKBURN / ARRAWATTA	750068	BARDEN / ARRAWATTA	750069
BEBO / ARRAWATTA	750070	BENGALLA / ARRAWATTA	750071	BLLOONBAH / ARRAWATTA	750072
BONSHAW / ARRAWATTA	750073	BORA / ARRAWATTA	750074	BOWMAN / ARRAWATTA	750075
BUCKLEY / ARRAWATTA	750076	BUKKULLA / ARRAWATTA	750077	BUNAL / ARRAWATTA	750078
BURGUNDY / ARRAWATTA	750079	BYRON / ARRAWATTA	750080	CAMPBELL / ARRAWATTA	750081
CHAMPAGNE / ARRAWATTA	750082	CHAPMAN / ARRAWATTA	750083	COX / ARRAWATTA	750084
CUCUMBER / ARRAWATTA	750085	DIGHT / ARRAWATTA	750086	DUMARESQ / ARRAWATTA	750087
EAST YETMAN / ARRAWATTA	750088	EGERTON / ARRAWATTA	750089	ELLIS / ARRAWATTA	750090
ENA / ARRAWATTA	750091	FRAZER / ARRAWATTA	750092	GOONIAN / ARRAWATTA	750093
GORDON / ARRAWATTA	750094	GRAMAN / ARRAWATTA	750095	HALLAM / ARRAWATTA	750096
HAWTHORNE / ARRAWATTA	750097	HETHERINGTON / ARRAWATTA	750098	HOGARTH / ARRAWATTA	750099
HOLDFAST / ARRAWATTA	750100	HOLMES / ARRAWATTA	750101	KINGS PLAINS / ARRAWATTA	750102
LESLIE / ARRAWATTA	750103	LIMESTONE / ARRAWATTA	750104	LOCKERBY / ARRAWATTA	750105
LORNE / ARRAWATTA	750106	MACINTYRE / ARRAWATTA	750107	MANDOE / ARRAWATTA	750108
MCDONALD / ARRAWATTA	750109	MERITI / ARRAWATTA	750110	MYALL / ARRAWATTA	750111
NORTH NULLAMANNA / ARRAWATTA	750112	NULLAMANNA / ARRAWATTA	750113	PINDARI / ARRAWATTA	750114
REDBANK / ARRAWATTA	750115	ROSE / ARRAWATTA	750116	RUSSELL / ARRAWATTA	750117
SAMUEL / ARRAWATTA	750118	SEVERN / ARRAWATTA	750119	ST ANDREWS / ARRAWATTA	750120
SWAMP OAK / ARRAWATTA	750121	TEXAS / ARRAWATTA	750122	TRIGAMON / ARRAWATTA	750123
VIVIER / ARRAWATTA	750124	WALLANGRA / ARRAWATTA	750125	WANDERA / ARRAWATTA	750126
WEEAN / ARRAWATTA	750127	WYNDHAM / ARRAWATTA	750128	YETMAN / ARRAWATTA	750129
BARRAJIN / ASHBURNHAM	750130	BARTON / ASHBURNHAM	750131	BEARGAMIL / ASHBURNHAM	750132
BELL / ASHBURNHAM	750133	BELUBULA / ASHBURNHAM	750134	BINDOGUNDRA / ASHBURNHAM	750135
BOCOBIDGLE / ASHBURNHAM	750136	BOREE CABONNE / ASHBURNHAM	750137	BOREE NYRANG / ASHBURNHAM	750138
BOWAN / ASHBURNHAM	750139	BROLGAN / ASHBURNHAM	750140	BRYMEDURA / ASHBURNHAM	750141

COLUMN 1 (Parish/County) BUMBERRY / ASHBURNHAM	COLUMN 2 (Reserve No) 750142	COLUMN 1 (Parish/County) CANOBOLAS / ASHBURNHAM	COLUMN 2 (Reserve No) 750143	COLUMN 1 (Parish/County) CANOMODINE / ASHBURNHAM	COLUMN 2 (Reserve No) 750144
CARGO / ASHBURNHAM	750145	CARRAWABBITY / ASHBURNHAM	750146	COLLETT / ASHBURNHAM	750147
COOKAMIDGERA / ASHBURNHAM	750148	COONAMBRO / ASHBURNHAM	750149	CUDAL / ASHBURNHAM	750150
CUMBLE / ASHBURNHAM	750151	CURRAJONG / ASHBURNHAM	750152	CURUMBENYA / ASHBURNHAM	750153
DOWLING / ASHBURNHAM	750154	DULLADERRY / ASHBURNHAM	750155	EDINBURGH / ASHBURNHAM	750156
EUGOWRA / ASHBURNHAM	750157	FORBES / ASHBURNHAM	750158	GOIMBLA / ASHBURNHAM	750159
GOOBANG / ASHBURNHAM	750160	GOONUMBLA / ASHBURNHAM	750161	GREGRA / ASHBURNHAM	750162
GUNNINGBLAND / ASHBURNHAM	750163	KAMANDRA / ASHBURNHAM	750164	MANDAGERY / ASHBURNHAM	750165
MANILDRA / ASHBURNHAM	750166	MARTIN / ASHBURNHAM	750167	MILPOSE / ASHBURNHAM	750168
MOGONG / ASHBURNHAM	750169	MOLONG / ASHBURNHAM	750170	MOURA / ASHBURNHAM	750171
MUGINCOBLE / ASHBURNHAM	750172	MUMBIDGLE / ASHBURNHAM	750173	MURGA / ASHBURNHAM	750174
NANAMI / ASHBURNHAM	750175	NANGAR / ASHBURNHAM	750176	NELUNGALONG / ASHBURNHAM	750177
NYRANG / ASHBURNHAM	750178	PARKES / ASHBURNHAM	750179	TERARRA / ASHBURNHAM	750180
TOOGONG / ASHBURNHAM	750181	TRAJERE / ASHBURNHAM	750182	TROUBALGIE / ASHBURNHAM	750183
WANERA / ASHBURNHAM	750184	WARREGAL / ASHBURNHAM	750185	WAUGAN / ASHBURNHAM	750186
WISE / ASHBURNHAM	750187	WOLABLER / ASHBURNHAM	750188	YARRAGONG / ASHBURNHAM	750189
BEGA / AUCKLAND	750190	BEMBOKA / AUCKLAND	750191	BIMMIL / AUCKLAND	750192
BONDI / AUCKLAND	750193	BOURNDA / AUCKLAND	750194	BOYD / AUCKLAND	750195
BREDBENDOURA / AUCKLAND	750196	BROGO / AUCKLAND	750197	BRONTE / AUCKLAND	750198
BUCKLE / AUCKLAND	750199	BURRAGATE / AUCKLAND	750200	CANDELO / AUCKLAND	750201
COBRA / AUCKLAND	750202	COLOMBO / AUCKLAND	750203	COOLANGUBRA / AUCKLAND	750204
EDEN / AUCKLAND	750205	GENOA / AUCKLAND	750206	GNUPA / AUCKLAND	750207
GOOYAN / AUCKLAND	750208	HOWE / AUCKLAND	750209	IMLAY / AUCKLAND	750210
KAMERUKA / AUCKLAND	750211	KANOONAH / AUCKLAND	750212	KIAH / AUCKLAND	750213
KOKOBOREEKA / AUCKLAND	750214	MATAGANAH / AUCKLAND	750215	MERINGO / AUCKLAND	750216
MOGILA / AUCKLAND	750217	MOKOREEKA / AUCKLAND	750218	MOOKERWAH / AUCKLAND	750219
MUMBULLA / AUCKLAND	750220	NALBAUGH / AUCKLAND	750221	NARRABARBA / AUCKLAND	750222
NULLICA / AUCKLAND	750223	NUMBUGGA / AUCKLAND	750224	NUNGATTA / AUCKLAND	750225
OORANOOK / AUCKLAND	750226	PAMBULA / AUCKLAND	750227	PERICOE / AUCKLAND	750228
PUEN BUEN / AUCKLAND	750229	STURT / AUCKLAND	750230	TANTAWANGALO / AUCKLAND	750231
TOWAMBA / AUCKLAND	750232	VICTORIA / AUCKLAND	750233	WAALIMMA / AUCKLAND	750234
WALLAGARAUGH / AUCKLAND	750235	WALLAGOOT / AUCKLAND	750236	WERRI BERRI / AUCKLAND	750237
WOLUMLA / AUCKLAND	750238	WONBOYN / AUCKLAND	750239	WYNDHAM / AUCKLAND	750240
YAMBULLA / AUCKLAND	750241	YOWAKA / AUCKLAND	750242	YUGLAMAH / AUCKLAND	750243
YURAMMIE / AUCKLAND	750244	BADHAM / BARADINE	750245	BARADINE / BARADINE	750246
BARWON / BARADINE	750247	BERIGERIE / BARADINE	750248	BERRYBAH / BARADINE	750249
BOORIMAH / BARADINE	750250	BUGALDIE / BARADINE	750251	BULLERAWA / BARADINE	750252
BULLIWY / BARADINE	750253	BUNDILL / BARADINE	750254	BUNGLE GULLY / BARADINE	750255
CARLO / BARADINE COOMORE / BARADINE	750256 750259	CEELNOY / BARADINE COOMORE SOUTH / BARADINE	750257 750260	COOLANGOOLA / BARADINE COOPER / BARADINE	750258 750261
COX / BARADINE	750262	CUBBO / BARADINE	750263	CULNOOY / BARADINE	750264
CUMBERDOON / BARADINE	750265	CUMBIL / BARADINE	750266	DANDRY / BARADINE	750267
DANGAR / BARADINE	750268	DENEVOLI / BARADINE	750269	DOYLE / BARADINE	750270
DUBBO / BARADINE	750271	DUNWERIAN / BARADINE	750272	ETOO / BARADINE	750273
EULIGAL / BARADINE	750274	EVANS / BARADINE	750275	GIDGENBAR / BARADINE	750276
GINEE / BARADINE	750277	GOANGRA / BARADINE	750278	GOORIANAWA / BARADINE	750279
GORA / BARADINE	750280	GWABEGAR / BARADINE	750281	HALL / BARADINE	750282
JAMALONG / BARADINE	750283	KENEBRI / BARADINE	750284	LESLIE / BARADINE	750285
MACKENZIE / BARADINE	750286	MCFARLANE / BARADINE	750287	MEIT / BARADINE	750288
MEREBENE / BARADINE	750289	MERIMBOROUGH / BARADINE	750290	MERRITOMBEA / BARADINE	750291
MIDGEE / BARADINE	750292	MILCHOMI / BARADINE	750293	MILLER / BARADINE	750294



inches; on the north-east by lines bearing successively 153 degrees 46 minutes 20 seconds 926 feet 2½ inches and 159 degrees 24 minutes 132 feet 8 inches to the said north-western side of Bernera-road; and on the south-east by that side of that road bearing 185 degrees 49 minutes 256 feet 9½ inches to the point of commencement,—and said to be in the possession of Luka Anticevich and Anthony Anticevich.

And also, all that piece or parcel of land situate in the City of Liverpool, parish of Cabramatta and county of Cumberland, being part of lots 310 and 342, deposited plan 2,475: Commencing on the western boundary of the said lot 310 at a point bearing 180 degrees and distant 8 feet 3 inches from the north-western corner of that lot; and bounded thence on the north-east by a line bearing 137 degrees 29 minutes 30 seconds 390 feet 8½ inches to the eastern boundary of the said lot 310; on the east by part of that boundary and part of the eastern boundary of the said lot 342 in all bearing 180 degrees 295 feet 11½ inches; on the south-west by a line bearing 317 degrees 29 minutes 30 seconds 390 feet 8½ inches to the said western boundary of lot 310; and on the west by part of that boundary bearing 360 degrees 295 feet 11½ inches to the point of commencement,—and said to be in the possession of Svetislav Stojanovic. Misc. 61-613. (5563)

ELECTRICITY COMMISSION ACT, 1950, AS AMENDED. —PUBLIC WORKS ACT, 1912, AS AMENDED

FORBES-CONDOBOLIN 66KV TRANSMISSION LINE

Acquisition of Easement

APPLICATION by the Electricity Commission of New South Wales having been made that an easement or right to use the surface and the subsoil or undersurface of the land described in the Schedule hereto be appropriated or resumed for the construction and maintenance of an electricity transmission line, it is hereby notified and declared by His Excellency the Governor, acting with the advice of the Executive Council, that an easement or right as aforesaid over so much of the said land as is Crown land is hereby appropriated and an easement or right as aforesaid over so much of the said land as is private property is hereby resumed under Division 1 of Part V of the Public Works Act, 1912, as amended, for the purpose aforesaid; and it is hereby further notified that the said easement or right is vested in the Electricity Commission of New South Wales.

Dated at Sydney, this 28th day of June, 1961.

E. W. WOODWARD, Governor.

By His Excellency's Command,

P. D. HILLS, Minister for Local Government.

SCHEDULE

All that piece or parcel of land situate in the Municipality of Forbes, parish of Forbes and county of Ashburnham; being that part of portion 531 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 531 at a point distant 3 chains 55 links southerly from the north-eastern corner of that portion and bears westerly through a point on the western boundary of the said portion 531 distant 3 chains 55 links southerly from the north-western corner of that portion,—and said to be in the possession of George W. Parker.

Also, all that piece or parcel of land situate as aforesaid, being that part of portions 883 and 884 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northern boundary of the said portion 884 at a point distant 3 chains 45 links easterly from the north-western corner of that portion and bears southwesterly through a point on the western boundary of the said portion 883 distant 6 chains 7 links southerly from the northwestern corner of that portion,—and said to be in the possession of William F. Smith and Cecil Jones.

Also, all that piece or parcel of land situate as aforesaid, being that part of portions 369, 370 and 371 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 369 at a point distant 13 chains 84 links northerly from the south-eastern corner of that portion and bears south-westerly through a point on the southern boundary of the said portion 370 distant 44.5 links easterly from the south-western corner of that portion,—and said to be in the possession of Martha Shone and others.

Also, all that piece or parcel of land situate as aforesaid, being that part of portions 169, 335 to 338, inclusive, 342, 378, 412, 1614, 1642, that part of the closed road separating portion 338 from portion 342 and that part of the closed road separating portion 169 from portions 335 and 336 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boun-

dary of the said portion 378 at a point distant 2 chains 20 links northerly from the southernmost corner of that portion and bears south-westerly through a point on the western boundary of the said portion 412 distant 13 chains 98 links northerly from the south-western corner of that portion,—and said to be in the possession of W. H. Adams and others.

Also, all that piece or parcel of land situate in the Municipality of Forbes and Shire of Jemalong, parish of Forbes and county of Ashburnham, being that part of portions 357, 163, 373, 9, 24, 433, 567 and 570, that part of lot B. plan annexed to Dealing G. 154,536, that part of the closed road forming a southern boundary of the said portion 24 and that part of T.S. & C.R. 51,188 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 357 at a point distant 13 chains 98 links northerly from the south-eastern corner of that portion and bears south-westerly through a point on the western boundary of the said portion 567 distant 7 chains 79 links southerly from the northernmost north-western corner of that portion,—and said to be in the possession of Albert A. Sharp and others.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parish of Bocobidgle and county of Ashburnham, being that part of portions 177 and 185 extending from the western side of the road forming the western boundary of portion 567, parish of Forbes, to the eastern side of the road forming the northernmost north-eastern boundary of portion 188, parish of Bocobidgle, and lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the western boundary of the said portion 567 at a point distant 7 chains 79 links southerly from the northernmost north-western corner of that portion and bears south-westerly through a point on the northernmost north-eastern boundary of the said portion 188 distant 2 chains 59.2 links south-easterly from the northernmost corner of that portion but excluding thereout the reserved road 1 chain wide within the said portions 177 and 185,—and said to be in the possession of Jemalong Shire Council and others.

Also, all that piece or parcel of land situate as last afore-said, being that part of portion 188 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northernmost north-eastern boundary of the said portion 188 at a point distant 2 chains 59.2 links south-easterly from the northernmost corner of that portion and bears south-westerly through a point on the western boundary of the said portion 188 distant 4 chains 10.1 links southerly from the northernmost corner of that portion,—and said to be in the possession of Jemalong Shire Council.

Also, all that piece or parcel of land situate as last afore-said, being that part of portion 177 extending from the western and south-western boundaries of portion 188 to the right bank of the Lachlan River and lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the said western boundary of portion 188 at a point bearing 180 degrees 18 minutes and distant 4 chains 10.1 links from the northernmost corner of that portion and bears 218 degrees 37 minutes for a distance of 13 chains 23.5 links, and thence 216 degrees 17 minutes through a point on the said right bank of the Lachlan River, but excluding thereout the site of a reserved road 1 chain 50 links wide within the said portion 177,—and said to be in the possession of Jemalong Shire Council.

Also, all that piece or parcel of land situate as last afore-said, being that part of portions 4, 5, 6, 44, 50, 24, 90, 93 and 92 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 92 at a point distant 60 chains 16 links northerly from the south-eastern corner of that portion and bears generally south-westerly through a point on the western boundary of the said portion 4 distant 29 chains 19 links northerly from the south-western corner of that portion,—and said to be in the possession of J. C. Thornton and others.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parish of Jemalong and county of Forbes, being that part of portions 22, 60, 73, 117, 118 and 119, and that part of T.S. & C.R. 5,751 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 22 at a point distant 52 chains 71 links northerly from the south-eastern corner of that portion and bears generally westerly through a point on the western boundary of the said portion 173 distant 20 chains 42 links northerly from the south-western corner of that portion,—and said to be in the possession of T. W. Bolam and others.

Also, all that piece or parcel of land situate as last aforesaid, being that part of portions 23, 24, 85, 153 and 92 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 23 at a point distant 20 chains 42 links northerly from the south-eastern corner of that portion and bears generally westerly through a point on a western boundary of the said portion 92 distant 2 chains 64 links northerly from the southernmost south-western corner of that portion,—and said to be in the possession of G. L. Jones.

Also, all that piece or parcel of land situate as last afore-said, being that part of portions 26, 27, 76 and 82 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 26 at a point distant 11 chains 9 links southerly from the intersection of that boundary with the south-eastern side of a reserved road 5 chains wide within that portion and bears generally westerly through a point on the western boundary of the said portion 76 distant 23 chains 37 links southerly from the intersection of that boundary with a southern side of a reserved road 3 chains wide within that portion,—and said to be in the possession of James Forsyth Hall.

Also, all that piece or parcel of land situate as last afore-said, being that part of portions 28, 122, 123, 135 and 136, that part of the closed road separating portions 123 and 135 and that part of the closed road separating portions 52 and 136 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 28 at a point distant 23 chains 37 links southerly from the intersection of that boundary with the southern side of the reserved road 3 chains wide within that portion and bears westerly through a point on the eastern boundary of portion 52 distant 15 chains 55.4 links northerly from the easternmost south-eastern corner of that portion,—and said to be in the possession of F. W. Gibson and Sons Pty. Ltd.

Also, all that piece or parcel of land situate as last aforesaid, being that part of portion 52 and that part of Quarry Reserve No. 2,600 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 52 at a point distant 15 chains 55.4 links northerly from the easternmost south-eastern corner of that portion and bears generally south-westerly through a point on the easternmost eastern boundary of portion 68, parish of Jemalong West, county of Gipps, distant 8 chains 68 links southerly from the easternmost north-eastern corner of that portion,—and said to be in the possession of Wesley J. Stephens and the Crown.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parish of Jemalong West and county of Gipps, being that part of portions 59 and 68 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the easternmost eastern boundary of the said portion 68 at a point distant 8 chains 68 links southerly from the easternmost north-eastern corner of that portion and bears south-westerly through a point on the northernmost western boundary of the said portion 59 distant 4 chains 18 links southerly from the intersection of that boundary with the south-eastern side of a reserved road 3 chains wide within that portion,—and said to be in the possession of K. A. Frazer and D. N. Cragg.

Also, all that piece or parcel of land situate as last afore-said, being that part of portions 93, 79 and 86 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 93 at a point distant 5 chains 12 links southerly from the north-eastern corner of that portion and bears generally north-westerly through a point on the western boundary of the said portion 86 distant 11 chains 46 links southerly from the westernmost north-western corner of that portion,—and said to be in the possession of Daniel Crouch and others.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parish of Towyal and county of Gipps, being that part of portions 32, 33, 57, 16, 36, 37, 39 and 40, extending from the eastern boundary of portion 32 to the eastern boundary of the 3 roods 11½ perches parcel of land resumed for Jemalong West Substation by notification in Gazette of 13th July, 1956, lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 32 at a point distant 11 chains 46 links southerly from the intersection of that boundary with the southern side of the reserved road 3 chains wide within that portion and bears generally north-westerly through a point on the eastern boundary of the said 3 roods 11½ perches parcel of land distant 2 chains 29 links southerly from the north-eastern corner of that land,—and said to be in the possession of A. H. Straney and others.

Also, all that piece or parcel of land situate as last aforesaid, being that part of portions 9 and 10 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the southernmost eastern boundary of the said portion 10 at a point distant 3 chains 68 links southerly from the intersection of that boundary with the south-western side of the reserved road 5 chains wide within that portion and bears generally north-westerly through a point on the western boundary of the said portion 9 distant 30 chains 93 links southerly from the northernmost corner of that portion, but excluding thereout the reserved road 3 chains wide within the said portion 9,—and said to be in the possession of E. J. Constable and others.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parish of Warroo and county of Gipps, being that part of portions 72, 70, 7, 8, 9, 10 and 12 to 15 inclusive, and lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 72 at a point distant 34 chains 6 links southerly from the easternmost north-eastern corner of that portion and bears generally north-westerly through a point on the western boundary of the land shown in plan catalogued Ms. 1,937 Fs. distant 9 chains 93.3 links southerly from the northernmost corner of that land, and said to be in the possession of G. K. R. Reid and others.

Also, all that piece or parcel of land situate as last afore-said, being that part of portions 80, 85, 140, 134, 27, 18, 19, 25, 24, 23 and 37, that part of Reserve 78,434 for Public School Addition, notified 29th March, 1956, and that part of T.S. & C.R. 27,876 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said Reserve 78,434 at a point distant 3 chains 16 links southerly from the north-eastern corner of that Reserve and bears generally north-westerly through a point on the north-western boundary of the said portion 37 distant 12 chains 31 links south-westerly from the northernmost corner of that portion,—and said to be in the possession of N. C. Morgan and others.

Also, all that piece or parcel of land situate in the Shire of Jemalong, parishes of Cadow and Warroo and county of Gipps, being that part of portion 86, parish of Warroo, and that part of portions 78, 99 and 100, parish of Cadow, lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects a south-eastern boundary of the said portion 100 at a point distant 12 chains 31 links south-westerly from the easternmost corner of that portion and bears north-westerly through a point on the northernmost northern boundary of the said portion 99 distant 4 chains 34 links westerly from the northernmost northeastern corner of that portion,—and said to be in the possession of Frederick W. Morgan and others.

Also, all that piece or parcel of land situate in the Shires of Lachlan and Jemalong, parish of Cadow and county of Gipps, being that part of portions 73, 118, 111, 110 and 109 and that part of T.S.R. 27,076 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the southern boundary of the said portion 73 at a point distant 49 chains easterly from the south-western corner of that portion and bears generally north-westerly through a point on the easternmost north-eastern boundary of portion 112 distant 1 chain 51 links north-westerly from the easternmost north-eastern corner of that portion,—but excluding thereout the site of the reserved road 1 chain wide within the said portion 118,—and said to to be in the possession of H. R. Chandler and others.

Also, all that piece or parcel of land situate in the Shire of Lachlan, parish of Cadow and county of Gipps, being that part of portion 112 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the easternmost north-eastern boundary of the said portion 112 at a point distant 1 chain 51 links north-westerly from the easternmost north-eastern corner of that portion and bears generally westerly through a point on the eastern boundary of portion 28 distant 2 chains 69 links southerly from the north-eastern corner of that portion,—and said to be in the possession of Gordon G. Styles.

Also, all that piece or parcel of land situate in the Shire of Lachlan, parishes of Moonbia and Cadow and county of Gipps, being that part of portion 28, parish of Cadow and that part of portions 29, 48 and 97, parish of Moonbia, lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 28 at a point distant 2 chains 69 links southerly from the north-eastern corner of that portion and bears generally south-westerly through a point on the western boundary of the said portion 48 distant 41 chains 42 links southerly from the intersection of that boundary with the south-eastern side of the road 3 chains wide from Condobolin to Forbes,—and said to be in the possession of the Commercial Banking Co. of Sydney Ltd. and others.

Also, all that piece or parcel of land situate in the Shire of Lachlan, parish of Moonbia and county of Gipps, being that part of portions 10, 80, 26, 27, 24, 93, 77 and 50 and that part of the closed road separating the said portions 24 and 27 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 10 at a point distant 41 chains 42 links southerly from its intersection with a

south-eastern side of the reserved road 3 chains wide from Condobolin to Forbes and bears generally westerly through a point on the northern boundary of the said portion 50 distant 15 chains 47 links westerly from the north-eastern corner of that portion,—and said to be in the possession of W. Hicks and others.

Also, all that piece or parcel of land situate in the Shire of Lachlan, parishes of South Borambil and Moonbia and county of Gipps, being that part of portions 86, 22, 103, 104, 34 and 31, parish of Moonbia, that part of portion 110, parish of South Borambil, and that part of the closed road separating the said portions 31 and 110 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northern boundary of portion 50 at a point distant 15 chains 47 links westerly from the north-eastern corner of that portion and bears north-westerly through a point on the western boundary of the said portion 110 distant 14 chains 2 links southerly from the north-western corner of that portion,—and said to be in the possession of W. K. Whitehead and others.

Also, all that piece or parcel of land situate in the Shire of Lachlan, parish of South Borambil and county of Gipps, being that part of portions 81, 94 and 116, that part of the closed road separating the said portions 81 and 116 and that part of the closed road 1 chain 50 links wide forming the northern boundary of the said portion 94 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 116 at a point distant 14 chains 2 links southerly from the north-eastern corner of that portion and bears north-westerly through a point on the southern boundary of lot 4, deposited plan 17,653, distant 32 chains 39 links westerly from the southernmost south-eastern corner of that lot,—and said to be in the possession of Patrick J. Mooney.

Also, all that piece or parcel of land situate as last afore-said, being that part of lots 2, 3 and 4, deposited plan 17,653, lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the southern boundary of the land shown in plan annexed to Dealing D. 313,975 at a point distant 6 chains 38 links easterly from the south-western corner of that land and bears generally north-westerly through a point on the western boundary of Lot A. plan annexed to Dealing D. 313,973, distant 95 chains 51 links southerly from the north-western corner of that lot,—and said to be in the possession of P. M. May and others.

Also, all that piece or parcel of land situate as last aforesaid, being that part of portions 77, 63 to 66 inclusive, and 50 to 54 inclusive, that part of the closed road separating portion 63 from portion 77, that part of the closed road separating portion 64 from portion 65, that part of the closed road separating portion 54 from portions 65 and 66 and that part of the closed road separating portion 52 from portion 53 and lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 77 at a point distant 22 chains 94 links southerly from the north-eastern corner of that portion and bears generally north-westerly through a point on the generally eastern side of the road shown in plan catalogued R. 10,676-1,603 bearing 360 degrees and distant 37 chains 60 links from the angle formed by that side of that road and a north-eastern side of that road bearing 123 degrees 52 minutes,—and said to be in the possession of W. G. Matchett and Co. Pty. Ltd.

Also, all that piece or parcel of land situate in the Municipality of Condobolin and Shire of Lachlan, parish of South Borambil and county of Gipps, being that part of portions 33, 32, 39, 40, 25 and 26 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northern-most eastern boundary of the said portion 33 at a point distant 103 chains 40 links southerly from the easternmost north-eastern corner of that portion and bears north-westerly through a point on the southernmost western boundary of the said portion 25 distant 21 chains 17 links northerly from the southernmost south-western corner of that portion,—and said to be in the possession of W. G. Matchett and Co. Pty. Ltd.

Also, all that piece or parcel of land situate in the Municipality of Condobolin and Shire of Lachlan, parish of South Condobolin and county of Gipps, being that part of portions 82, 83, 175, 176, 187, 188, 17 and 63 and that part of the closed road separating the said portion 17 from the said portion 187 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the eastern boundary of the said portion 83 at a point distant 9 chains 28 links southerly from the north-eastern corner of that portion and bears north-westerly through a point on the northern boundary of the said portion 63 distant 67 links westerly from the north-eastern corner of that portion,—and said to be in the possession of T. A. Brady and W. G. Matchett and Co. Pty. Ltd.

Also, all that piece or parcel of land situate in the Municipality of Condobolin, parish of South Condobolin and county of Gipps, being that part of portions 74, 75 and 76, 72, 20, 21 and 22, and that part of R. 58,840 for Temporary Common lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the southern boundary of the said portion 76 at a point distant 2 chains 84 links westerly from the south-eastern corner of that portion and bears generally north-westerly through a point on the left bank of the Lachlan River,—and said to be in the possession of K, N. Craig and others.

Also, all that piece or parcel of land situate in the Municipality of Condobolin, parish of Condobolin and county of Cunningham, being that part of portions 1 and 9 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the north-eastern boundary of the said portion 1 at a point bearing 302 degrees and distant 6 chains 67 links north-westerly from the eastern-most corner of that portion and bears south-easterly through a point on the right bank of the Lachlan River,—and said to be in the possession of A. J. McInnes.

Also, all that piece or parcel of land situate as last aforesaid, being that part of portions 86, 86A and 12 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the south-western boundary of the said portion 86 at a point distant 4 chains 34 links south-easterly from the westernmost south-western corner of that portion and bears north-westerly through a point on the left bank of Goobang or Billabong Creek,—and said to be in the possession of G. M. Pearce and R. H. Carrol.

Also, all that piece or parcel of Crown land situate as last aforesaid, being that part of portion 186 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the generally north-western boundary of the said portion 186 at a point bearing 244 degrees 31 minutes and distant 6 chains 11 links from the north-eastern corner of that portion and bears 160 degrees 29 minutes through a point on the right bank of Goobang or Billabong Creek.

Also, all that piece or parcel of Crown land situate as last aforesaid, being that part of portion 267 lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northernmost western boundary of the said portion 267 at a point distant 6 chains 30 links southerly from the westernmost north-western corner of that portion and bears south-easterly through a point on a south-eastern boundary of the said portion 267 distant 6 chains 11 links south-westerly from the easternmost south-eastern corner of that portion.

And also, all that piece or parcel of Crown land situate as last aforesaid, being that part of R. 68,023 for Future Public Requirements notified 2nd December, 1938, lying within strips of land 50 feet wide on both sides of the centre line of the transmission line which intersects the northernmost western boundary of portion 267 at a point bearing 180 degrees and distant 6 chains 30 links from the northernmost north-western corner of that portion and thence bears 306 degrees 45 minutes through a point on the north-western boundary of the said reserve. (5280)

PASTURES PROTECTION ACT, 1934-1957

REVOCATION OF CARAGABAL TANK TOWN WATER SUPPLY

I, AMBROSE GEORGE ENTICKNAP, Acting Minister for Agriculture for the State of New South Wales, being the Minister of the Crown for the time being administering the Pastures Protection Act, 1934-1957, in pursuance of the provisions of section 68 (3) of the said Act, do hereby revoke the declaration as a town water supply to Caragabal Tank Public Watering-place No. 1002, made by notification published in Government Gazette of 29th March, 1935.

A. G. ENTICKNAP, Acting Minister for Agriculture. Department of Agriculture,

Sydney, 28th June, 1961.

(6088)

FAUNA PROTECTION ACT, 1948

PURSUANT to section 18 of the Fauna Protection Act, 1948, an open season has been declared for the taking of Wallaroos (Macropus robustus) from 7th July, 1961, to 30th September, 1961, on all private properties only within that portion of the Moree Pastures Protection District south and east of the Narrabri-Moree-Boggabilla road.

The existence of the open season confers no right to shoot on private property unless the prior consent of the owner has been obtained. (A. 58-907)

(6188)

P. D. HILLS, for Chief Secretary.



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

27/7/2023 6:31AM

FOLIO: 7332/1166365

First Title(s): THIS FOLIO

Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
10/6/2011	DP1166365	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
10/6/2011	CA159470	CONVERSION ACTION	

*** END OF SEARCH ***

LS046213_EP - Farnell Street

PRINTED ON 27/7/2023





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 7332/1166365

SEARCH DATE TIME EDITION NO DATE _____ ____ _____ 27/7/2023 6:30 AM

LAND

LOT 7332 IN DEPOSITED PLAN 1166365 AT FORBES LOCAL GOVERNMENT AREA FORBES PARISH OF FORBES COUNTY OF ASHBURNHAM

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES

TITLE DIAGRAM DP1166365

(CA159470)

SECOND SCHEDULE (2 NOTIFICATIONS)

- THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
- LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.

NOTATIONS

NOTE: EASEMENT FOR TRANSMISSION LINE REFERRED TO IN GOV. GAZ. 7-7-1961 FOL. 2019. NO EVIDENCE OF CREATION OVER SUBJECT LAND.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

LS046213_EP - Farnell Street

PRINTED ON 27/7/2023

^{*} Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

-----27/7/2023 6:31AM

FOLIO: 7025/1020631

First Title(s): THIS FOLIO
Prior Title(s): CROWN LAND

Recorded	Number	Type of Instrument	C.T. Issue
22/11/2000	DP1020631	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
12/3/2007	CA105547	CONVERSION ACTION	FOLIO CREATED CT NOT ISSUED

*** END OF SEARCH ***





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 7025/1020631

SEARCH DATE TIME EDITION NO DATE _____ ____ _____ 27/7/2023 6:30 AM

LAND

LOT 7025 IN DEPOSITED PLAN 1020631 AT FORBES LOCAL GOVERNMENT AREA FORBES PARISH OF FORBES COUNTY OF ASHBURNHAM TITLE DIAGRAM DP1020631

FIRST SCHEDULE

THE STATE OF NEW SOUTH WALES

(CA105547)

SECOND SCHEDULE (4 NOTIFICATIONS)

- THE LAND IS A RESERVE WITHIN THE MEANING OF PART 5 OF THE CROWN LANDS ACT 1989 AND THERE ARE RESTRICTIONS ON TRANSFER AND OTHER DEALINGS IN THE LAND UNDER THAT ACT, WHICH MAY REQUIRE CONSENT OF THE MINISTER.
- LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
- THE PLAN DEFINING THE LAND IN THIS FOLIO WHICH WAS PREPARED FOR IDENTIFICATION PURPOSES IS NOW SUITABLE FOR TITLE ISSUE. IT IS NOT A CURRENT PLAN IN TERMS OF SECTION 7A OF THE CONVEYANCING ACT 1919.
- NOTIFICATION IN GOV. GAZ. DATED 7-7-1961 FOL 2019. EASEMENT FOR TRANSMISSION LINE AFFECTING THE LAND ABOVE DESCRIBED AS MORE FULLY SET OUT IN THE SAID NOTIFICATION.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

LS046213_EP - Farnell Street

PRINTED ON 27/7/2023

^{*} Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.



Appendix E



REPORT OF BOREHOLE: TP01

 Job No
 : EP3269
 Latitude
 : 3.36139
 Sheet
 : 1 OF 1

 Client
 : Client
 : 148.00507
 Logged
 : MC

 Project
 : Preliminary Site Investigation
 UTM
 : 55H
 Logged Date
 : 08/05/2025

 Location
 : Farnell St, Forbes NSW, Australia
 Drill Rig
 : 6T
 Checked Date
 : 09/05/2025

 Contractor
 : Checked Date
 : 09/05/2025

Location				Drill Dia . GT	Charled J. I. K
Location		vv, Australia		Drill Rig : 6T	Checked : LK
Contrac	ntractor :-			Inclination :	Checked Date : 09/05/2025
Depth (m)	Samples	PID (ppm)	Graphic Log	Material Description	Remarks
	TD01 0 1 0 0 0 1 0 0 0 2		*********	FILL Conduction and house developments for the first service of the	emall aby of plactic
	TP01_0.1, QA01, QA02, NEPM_0.1		>>>>	FILL Sandy SILT, red-brown, low plasticity, fine grained, dry	small qty of plastic
-		PID: 0		Gravelly CLAY, red-brown, medium plasticity, sub-rounded clasts, dry, hard	
- 0.50	TP01_0.5				
-	1701_0.3				
<u> </u>	TP01_1.0	PID: 0			
-	1901_1.0				
1.50 - -				Silty CLAY, grey with light brown mottling, high plasticity, sub-rounded clasts, dry, stiff	
2	TP01_2.0	PID: 0			
-				Silty CLAY, grey with brown mottling, high plasticity, slightly moist, firm	
	TP01_3.0				
				TP01 Terminate at 3m	



REPORT OF BOREHOLE: TP02

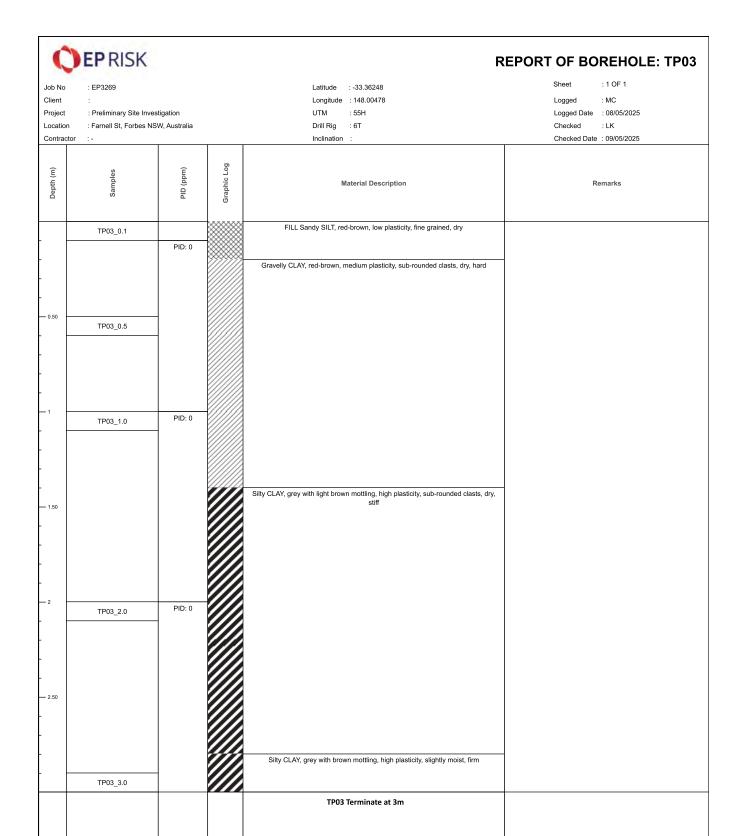
 Job No
 EP3269
 Latitude
 :33,36189
 Sheet
 :1 OF 1

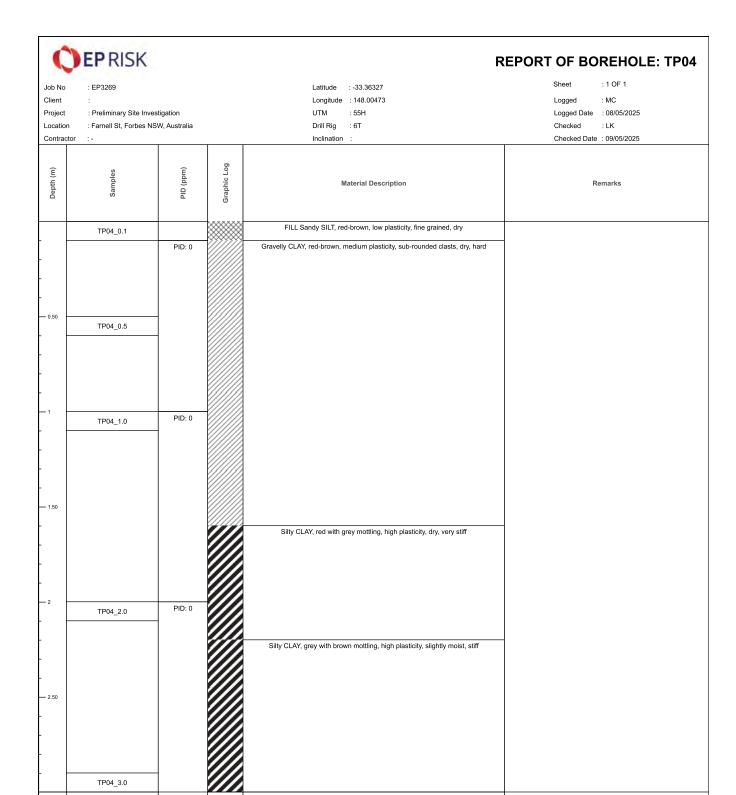
 Client
 : Client
 :48,00439
 Logged
 : MC

 Project
 : Preliminary Site Investigation
 UTM
 :55H
 Logged Date
 : 08/05/2025

 Location
 : Farnell St, Forbes NSW, Australia
 Drill Rig
 :6T
 Checked
 : LK

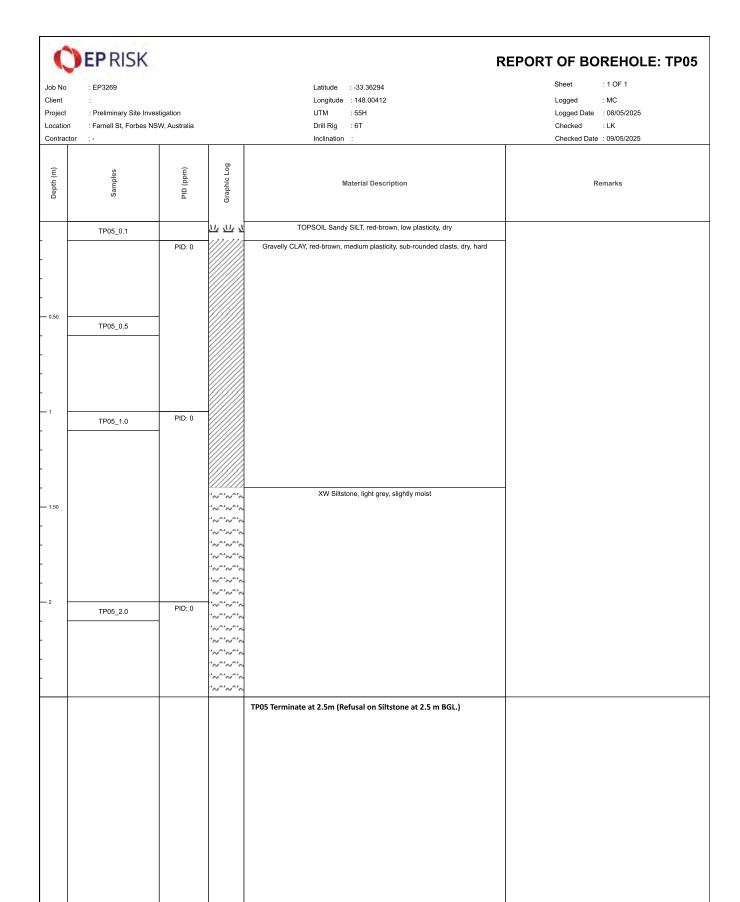
Project	: Preliminary Site Invest			UIM : 55H	Logged Date : 08/05/2025
Location	: Farnell St, Forbes NS\	N, Australia		Drill Rig : 6T	Checked : LK
Contracto	or :-			Inclination :	Checked Date : 09/05/2025
			ס		
Depth (m)	Samples	PID (ppm)	Graphic Log		
th ch	d E	d)	hic	Material Description	Remarks
Del	Sa	문	rap		
	TP02_0.1		************	FILL Sandy SILT, red-brown, low plasticity, fine grained, dry	
\vdash					
		PID: 0	**********		
			<i>"""""</i>	Gravelly CLAY, red-brown, medium plasticity, sub-rounded clasts, dry, hard	
				,,,,,	
- 0.50					
	TP02_0.5				
_					
-1	TP02_1.0	PID: 0			
	11.02_1.0		///////		1
				XW Sandstone, grey, reb-brown, sub-rounded clasts, dry	
.					
.					
— 1.50					
.					
.					
				TP02 Terminate at 1.8m (Practical refusal was reached at 1.8	
				m.)	
- 1			1		1





TP04 Terminate at 3m

Page 1	of	1
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REPORT OF BOREHOLE: TP06

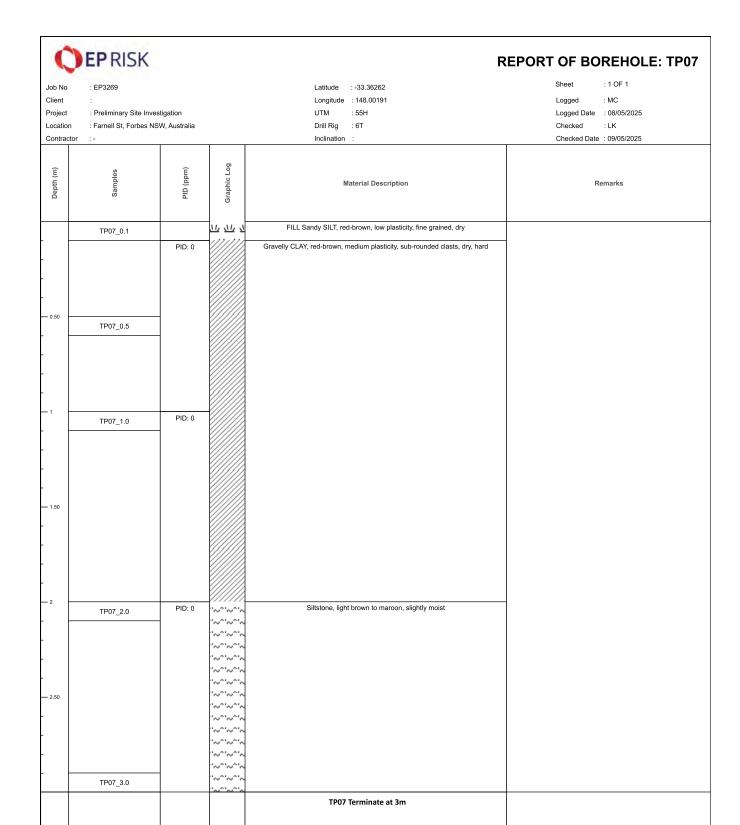
 Job No
 : EP3269
 Latitude
 : 33.36279
 Sheet
 : 1 OF 1

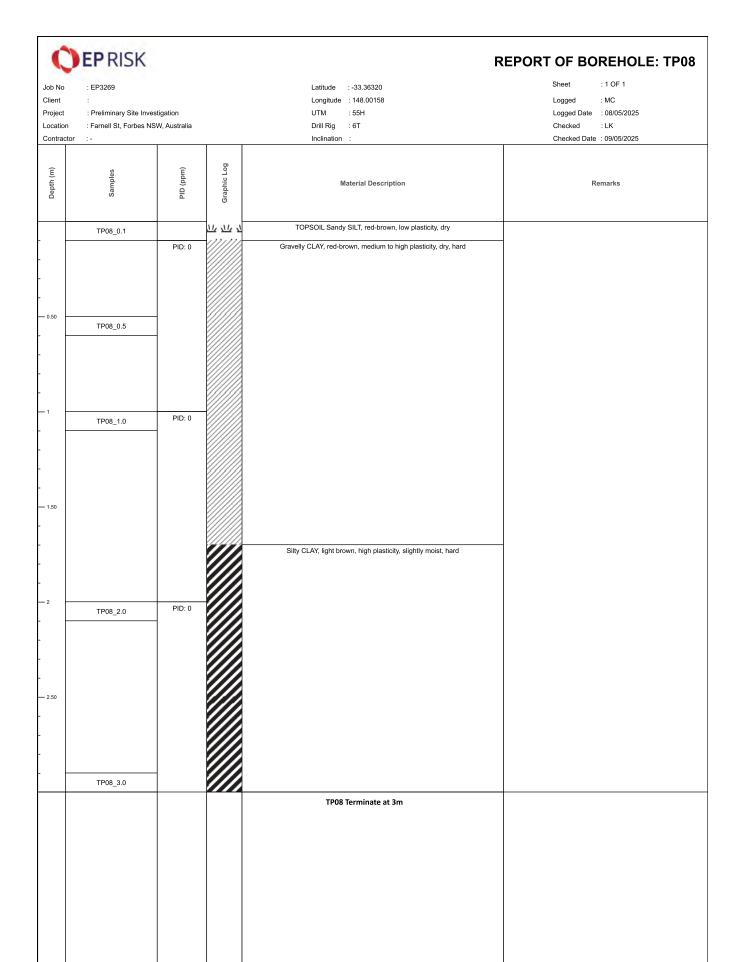
 Client
 : Client
 : 148.00303
 Logged
 : MC

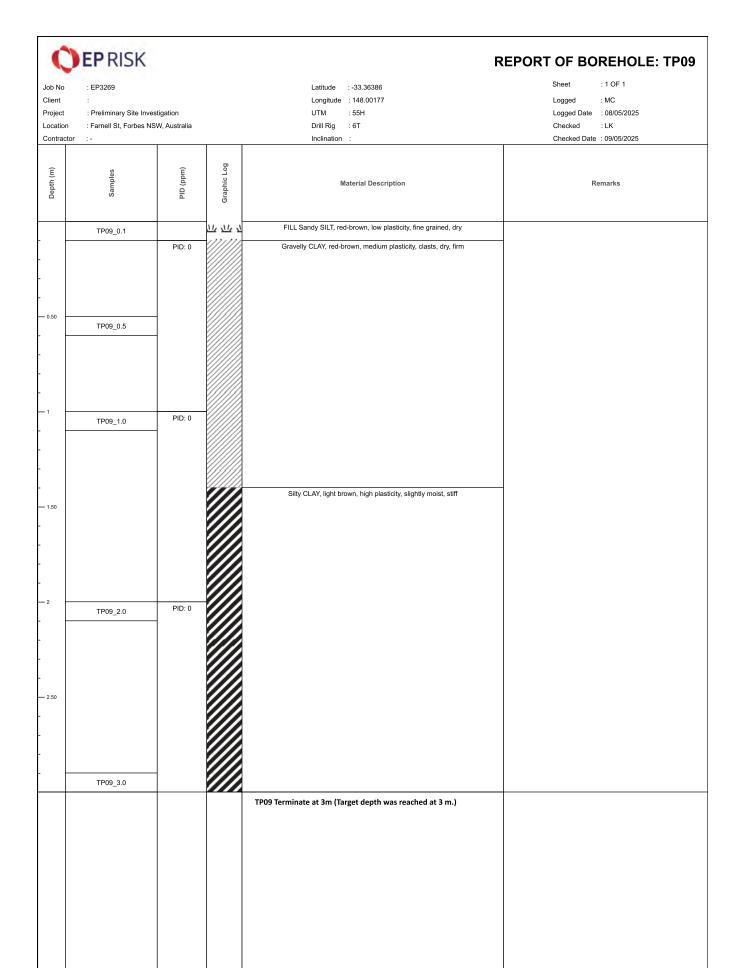
 Project
 : Preliminary Site Investigation
 UTM
 : 55H
 Logged Date
 : 08/05/2025

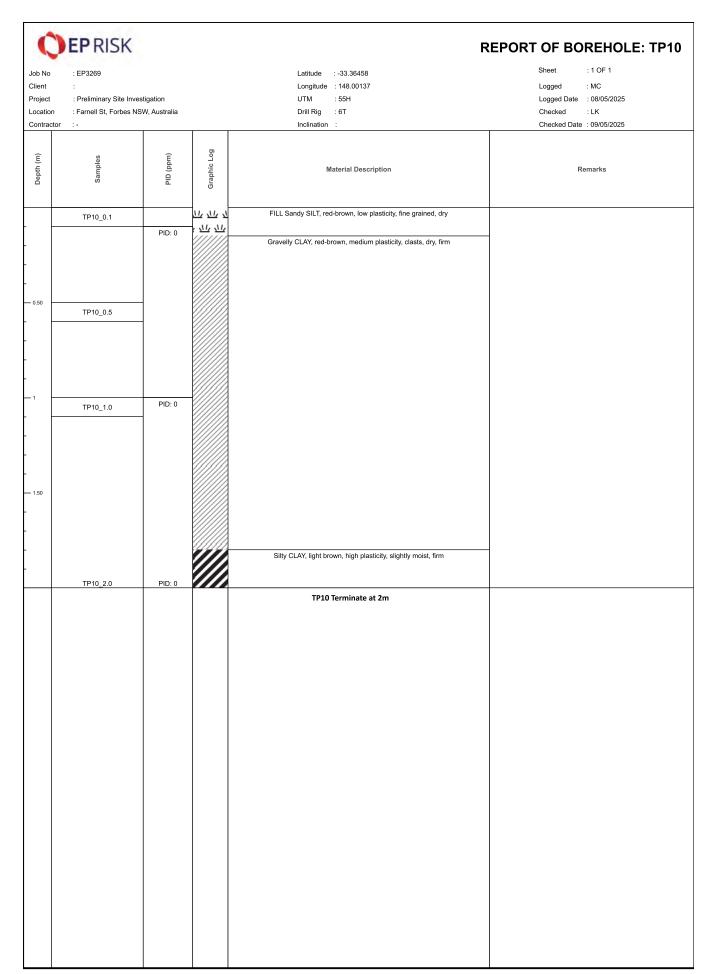
 Location
 : Famell St, Forbes NSW, Australia
 Drill Rig
 : 6T
 Checked
 : LK

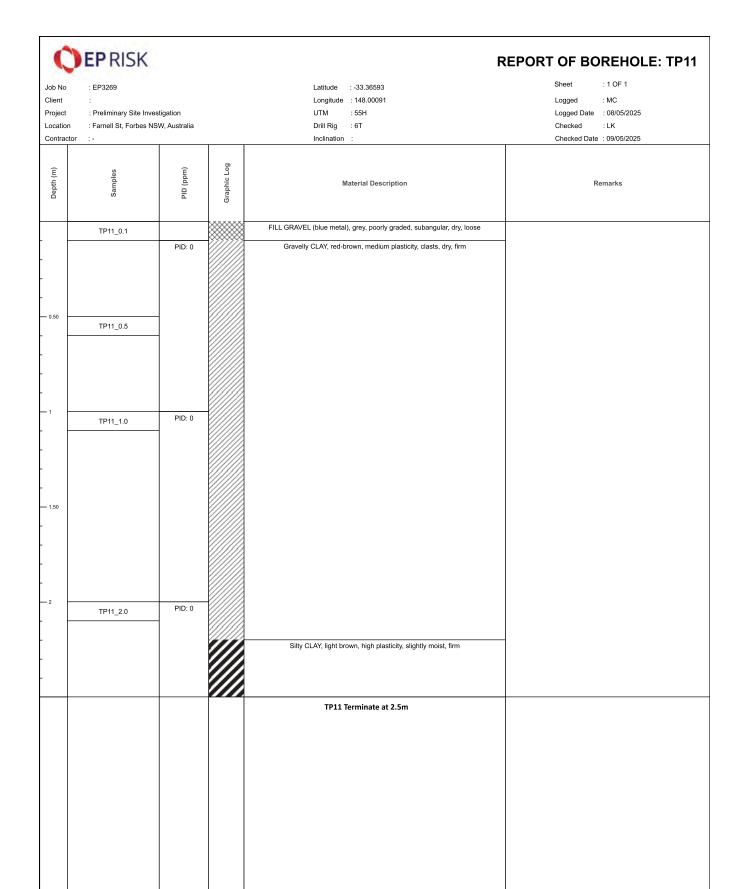
Location	: Farnell St, Forbes NS	W, Australia		Drill Rig : 6T	Checked : LK
Contractor	r :-			Inclination :	Checked Date : 09/05/2025
Depth (m)	Samples	PID (ppm)	Graphic Log	Material Description	Remarks
	TP06_0.1		******	FILL Sandy SILT, red-brown, low plasticity, dry, hard	
-	11 00_0.1	PID: 0	<i>>>>></i>	Gravelly CLAY, red-brown, medium plasticity, sub-rounded clasts, dry, hard	
-					
0.50	TP06_0.5				
⊢ ¹	TP06 1.0	PID: 0	''~^'~	Siltstone, light brown, slightly moist	
<u> </u>	TP06_1.0	•	''~^'~		
-					
-			"~~"~		
1.50			''~^'~'\ ''~^'		
-			··~^··~		
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2.50			··~^·~		
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 	TP06 3.0				
				TP06 Terminate at 3m	
				23 forminate at 5m	
- 2.50 	TP06_3.0		"20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2 "20"20"2	TP06 Terminate at 3m	

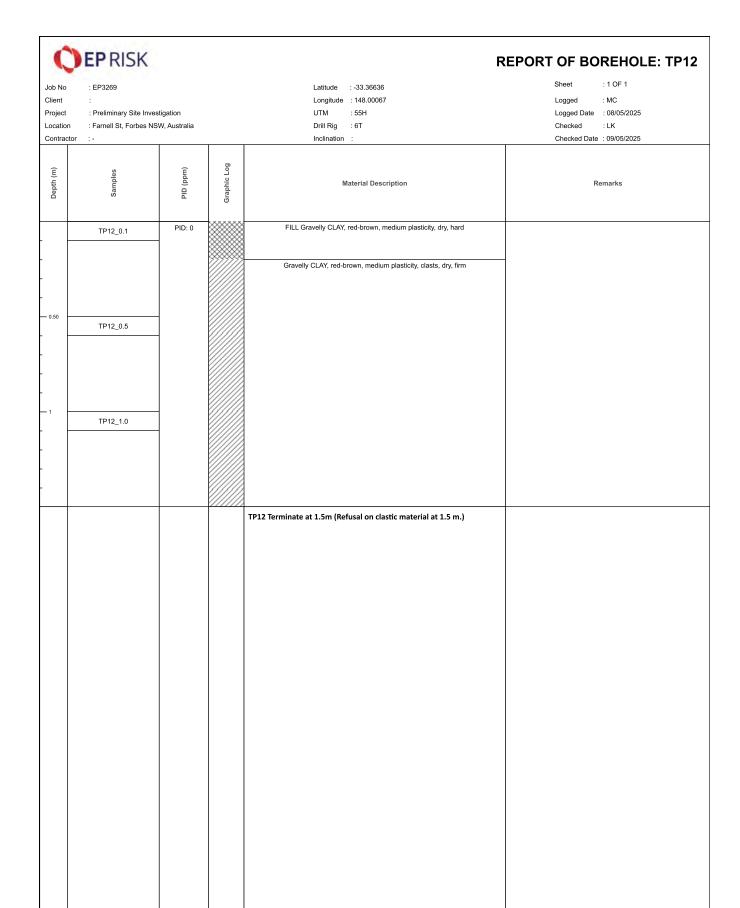














Appendix F NATA ACCREDITED LABORATORY REPORTS

Enul	CUSTODY ALS Laboratory, please tick 3-	THE DETERMINED SAME AND CONTROL OF THE ADMINISTRATION OF THE ADMIN	650	20-21 (10-10-10) (2-4-0) min from the representation of the repres	TO THE PROPERTY OF THE PROPERT	From North States Indian (1975) with Control	TO CONTROLL IN THE CONTROL OF THE CO
ENT: E	gement Pty Ltd		TURNAROUND REQUIREMENTS:	Siandard TAT (List due date):	List due date):		FOR LABORATORY USE ONLY (Circle)
PROJECT:	OFFICE: NEWCASTLE		(Standard TAT may be longer for some tests e.g., Ultra Trace Org ALS QUOTE NO.:	es23EPRISH	Non Standard or urgent I.A.I. (List due date); 0002	COC SEQUENCE NUMBER (direle)	Fige C) I fram no broke present upon receptification
ORDER NUMBER:	1					2 3	
DUECT M	PROJECT MANAGER:	CONTACT PH:				06: 1 2 3 (4) 5 6	
SAMPLER:	AC	SAMPLER MOBILE:	043/165533	RELINGUISHED BY	Le	RECEIVED BY:	
all Repor	CODE emails of ALSY (YES 1 000) Email Reports to (will default to PM if no other addresses are listed);	8	Deprik.	Con. Co. DATETIME	77	1914 7.50	DATESTIME: 1935
MMENTS	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	T		()			
ALS	SAMPLE DETAILS		MATRIX: SOLID (S) WATER (W)	CONTAINER INFORMATION	ANALYSIS REQUIRI Where Metals are required.	ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be isled to altrant suits price). Where Metals are included, specify Total (uniffered bottle required), or Dissolved (field filtered bottle required).	be toled to altract state price). Additional Information sectored (field filtered bottle required).
LABID	SAMPLEID	DATE /TIME	XIHTAM	TYPE & PRESERVATIVE (refer to Codes below)	91-5	1007	Connects on Realy containment levels, disults or samples requiring specific QC embysis sits.
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7	200-1001	1//			7		
3	JPB1-1:0			力			
4	7801. 20				1		Environmental p.
45	7002-0.1			Our (18ey 2	X		Sydney Work
و	7202-0-5			Jus / 1883 L			FOOT Reference
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X	7703-10	nids n	pys	1			一般の社会には通
Z	7003-2.0	2/		mo			Telephone: +61-2-6784 acc-
×	1204-0-1	70) Date:	Tr. 1824 2	X		9999
¥	7004-0.5	JEAN.	DO /	The / 123 7			
B	17004-1-0		Shed B	- Jak			
30	Pog_ 2.0	рсоц	nout	- Jan		LABOF	ORIGIN:
X	7PO4-3.0		NO CO	1 ml		NEWCAST	ASTLE
×	1008-01			Tar / Bay 2	X		
B	1005-0-5	7		Tu/By 2			
94	TPOS - 1.0	>	>	Jal		12	
				AFTOT.			

NA AN rrments on likely contaminant levels, dilutions tamples requiring specific QC analysis etc. Additional Information RECEIVED BY: DATE/TIME: JWOLLONDONG Bill Nermy Street Wintchaging NSW 259. Phr 02 4255 3126 Et portioenthalbeholdsil con-JSVINEY 277.58 Woodpush Road Smith Islad ISSW 2104-Piu 02 878-L8306 E-sumpoka syytheng Gillab plottal.com JTCWNSWLE 14.15 Deama Court Breite CLD 48 IR Pb. 07 479 0490 E-sampala entremy and Agalagnatica. FOR LABORATORY USE ONLY (Circle) ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be fated to attact suite price). Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (feld filtered bottle required). 5 RELINQUISHED BY: DATE/TIME: 1 1-2 COC SEQUENCE NUMBER OF: 1 2 3 (4) JHEWOASTLE SUBBANION HA Mortain West NEW 2004
Ph. D2 4014 12501 E. somples reversalingshiptotal con
LINCOMES 4118 Though Place North Mortain 1859 2543
Ph. Ozea 52 5010 E. novanges subpact one coc: 1 2 3 RECEIVED BY: DPERTH 10 Hod Way lakteps WA 6393 Ptr. 68.9209 7955 E. samples, perth/gas.pts LOOH Non Standard or urgent TAT (List due date): Standard TAT (List due date): - BY TOTAL CONTAINERS RELINQUISHED BY: 60 N CV DATE/TIME: (refer to ES23EPRISK0002 CONTAINER INFORMATION JARE BOURSE Z-I VIVERS Ross Spingente VID 51 F1
Ph 30 8549 990 E: semples mebournall skeptodul com
JALOUGE ZS Spinges Ross Hange MSN 2560
Ph; 02 6372 9736 E: emdyse mskijdesfolasjoni 1300 TYPE & PRESERVATIVE 0 Jac 14 B Jal 301 3 100 195 13/ 121 Standard TAT may be longer for some tests e.g.. Ultra Trace Organics) TURNAROUND REQUIREMENTS: MATRIX; SOLID (8) WATER (W) XISTAM ALS QUOTE NO .: 2ADELADE 21 Burna Rosal Piccelas 8 A 500E (16 2290 MG) E calvalod@spickolar com 12 DERESAR 28 Size Rose Surface OLD 4035 Pic 07 2437 722 E, asmyles birbaning/phopletons com Pic 07 7417 9000 E, gladysovany Rose Celepto CLD 400E Pic 07 7417 9000 E, gladysovany Rose Celepto CLD 400E EDD FORMAT (or default): Esdat SAMPLER MOBILE: Email Invoice to (will default to PM if no other addresses are listed); accounts@eprisk.com.au 5 DATE / TIME CONTACT PH: 40 Email Reports to (will default to PM if no other addresses are listed): CHAIN OF CUSTODY COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: 0.1 00 9 0 2.0 2.0 011 0 01-1001 0 0 000 POJ 105 Ò Ó M SAMPLEID CLIENT: EP Risk Management Pty Ltd SAMPLE DETAILS Thor-MOG-18001 MOST-Enulganmental COC emailed to ALS? (YES / NO) POR 1800 1881 M28. 808 205 1808 80dl 1808 50al 19 5001 88 100 ALS. OR-ICE: NEWCASTLE PROJECT MANAGER: ORDER NUMBER: PROJECT: SAMPLER: LAB ID 20 3 Z T ALS B 3 3 3 on 30 3

Water Container Codes: P = Uppreserved Plastic; N = Niktor Preserved Plastic; OA via Subtract Of SH = Sodiam Hydroids CD Preserved Plastic; N = Not Not State Stat

100	Enulgarmental Als Laboratory	Fin U 1342 7222 E. samples Institution against genesis com 2354405TONE 40 Celemondari Directione Club 4380 Ph. 07 7471 5610 E. gia-bitore gigalegicosi com		Ph. 93 5549 BION E1 lamples methormnellichepieted com DJANDOEE 27 Spiriosy Read Mudyee HSW 2009 Ph. 92 6172 0173 E-mindige malligibiligibiligibilis con	Ph. 024422-2003-E: nowingSulepkehl com "IPER 10 No Not Way Alebga VM-0030 Ph., 05 020-7050-E: hampins, meth gelaglobal poor		Ph. 07 4700 0000 E° to lance is wrisen white Bising case acted.
EP RI	CLIENT: EP Risk Management Pty Ltd		TURNAROUND REQUIREMENTS:	Standard TAT (List due date): Non Standard for green 127 ff let due date):	due date);	FOR LABORATORY USE ONLY (Gircle) Custory Seel Infact?	ISE ONLY (Circle)
PROJECT:			(Standard TAT may be longer for some tests e.g., Ultra Trace Organics) ALS QUOTE NO.:	ES23EP		COC SEQUENCE NUMBER (Circle) Free los / francios / fran	me for / framen loss britis a present upon receipt? Yes
ORDER NUMBER:	ů.				coc: 1 2 (3)	9 2	
PROJECT MANAGER:	GER:	CONTACT PH:			OF 1 2 3	(A) 5 6 7 Other comment:	
SAMPLER:	The state of the s	SAMPLER MOBILE:	200	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
orts to	GOC emailed to ALS? (YES / NO) Email Reports to (will default to PM if no other addresses are listed):	ed):	BORT	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME
ce to	Email invoice to (will default to PM if no other addresses are listed); accounts@eprisk.com.au	d): accounts@eprisk.com.au					
S/SP	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:					-	
	SAMPLE DETAILS		MATRIX: SOLID (S) WATER (W)	CONTAINER INFORMATION	ANALYSIS REQUIRED including SUITES (NE Where Metalis, are required, specify Total (unfiltered	ANALYSIS REQUIRED including SUITES (NB. Suke Codes must be listed to attract soths price). Where Metals are required, specify Total (unfiltered boils required) or Dissolved (field filtared boils required).	Additional Information
	SAMPLE ID	DATE / TIME	XIBTAM	TYPE & PRESERVATIVE (refer to codes below)	3/-5		Comments on Blody contaminant levels, dissilions, or samples requiring specific QC analysis etc.
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	70,0-0,5			Je Bey 2	4		1
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1	12 10			19 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 100 P
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1	0,5	7	7	101			

Water Container, Codes: P = Unpreserved Plastic; N = Natio Preserved DRC; SH = Sodium Hydroxide/Department S = Sodium Hydroxide Preserved Anther Glass; H = HCJ preserved AP = VADA VIB Sodium Blastic; NS = VADA VIB SODIUM SODIUM

N/4 /4 Senel Offor 100 mments on likely contaminant levels, dilubor samples requiring specific QC analysis etc. to euchos Additional Information maly Si Secondey RECEIVED BY: DATE/TIME: JSYONEY 277-289 Woodpath Rived Smithfleth 1959/ 2164-Pin Of 8754-8050E. Examples sydney@delplotel.com 270VWKWLE 14-15 Desira Corn Boile OLD-4816 Pin D7-4796 (1909) Exivates presonners @speciar-corn FOR LABORATORY USE ONLY (Gircle) ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price). Where Metals are required, specify Total (unfiltered Sotile required) or Dissolved (faid filtered bottle required). rdom Sample Terr RELINQUISHED BY: NEWCASTLE TAB OF ORIGIN: DATE/TIME: 1 COC SEQUENCE NUMBER (Circle) 10 Water Containe, Codes: P = Unpreserved Plastic; N = Nitric Preserved DRC = Nitric Preserved ORC; SH = Sodium Hydroxide/Depreserved Plastic; AS = Nitricipal Unpreserved (NB = VOA Vial H) Preserved (NB = VOA Vial H) Preserved; VB = VOA Vial H) Preserved (NB = VOA Vial H) Preserved (NB = VOA Vial H) Preserved; VB = VOA Vial H) Preserved; VB = VOA Vial H) Preserved (NB = VOA VIA Soliting 000; 1 2 3 OF: 1 2 3 2NEWCASTLE 0608 Matta xt Ris Mayled Wast NSW 2004 Phy U2-4014 2000 E. almother newcrated gallagate one CATOWIA 413 Chary Place North Kenne NSW 2544 Phy 02442 2009 E. neweb 2594 physical LIPERTH 10 Hod Way Malayan WA 6099 Ph. 08 0209 7855 Et samples perhi[janglobal con RECEIVED BY: DATE/TIME: ☐ Non Standard or urgent TAT (List due date): Standard TAT (List due date): TOTAL RELINQUISHED BY: 4 2 DATE/TIME: (refer to ES23EPRISK0002 CONTAINER INFORMATION THE LBOURINE 2-1 Virtual Road Springsole VIC 5171 Pir 03 8549 9300 E - samples pubblemed anglosel door TYPE & PRESERVATIVE codes below) BOTHES TRACKAY 78 Merceur Read Mastery OLD 474L** Jal 100 Standard TAT may be longer for some tests e.g., Ultra Trace Organics) TURNAROUND REQUIREMENTS: MATRIX: SOLID (S) WATER (W) XIATAM 3 5 ALS QUOTE NO .: JADELJADE 21 Burna Road Pooraka SA 6166 TOT 18 SESPICIONE Establicações (2000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 M EDD FORMAT (or default): Esdat SAMPLER MOBILE: Email Invoice to (will default to PM if no other addresses are listed); accounts@eprisk.com.au DATE / TIME CONTACT PH: t Email Reports to (will default to PM if no other addresses are listed): COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: CUSTODY CHAIN OF NEPRIO SAMPLE ID CLIENT: EP Risk Management Pty Ltd 2040 SAMPLE DETAILS 101 Enulganmental COC emailed to ALS? (YES / NO) 801 ROOM STS. OFFICE: NEWCASTLE PROJECT MANAGER: ORDER NUMBER: PROJECT: SAMPLER: LAB ID 33 # to K ALS USE



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2510317

Client : EP RISK MANAGEMENT Laboratory : Environmental Division Sydney

Contact : MR Mathew Cheshire Contact : Jason Dighton

Address : 3/19 BOLTON STREET Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

 Telephone
 : --- Telephone
 : +61-2-8784 8555

 Facsimile
 : --- Facsimile
 : +61-2-8784 8500

Project : EP3269 Page : 1 of 4

NEWCASTLE NSW 2300

Order number : EP3269 Quote number : ES2023EPRISK0002

(ES23EPRISK0002 - ES PRIMARY

WORK ONLY)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----Sampler : MC

Dates

Date Samples Received : 10-Apr-2025 07:51 Issue Date : 11-Apr-2025

Client Requested Due : 17-Apr-2025 Scheduled Reporting Date : 17-Apr-2025

Date

Delivery Details

Mode of Delivery: UndefinedSecurity Seal: Not AvailableNo. of coolers/boxes: 1Temperature: 3.7 - Ice present

Receipt Detail : No. of samples received / analysed : 59 / 18

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).
- Sample QA02 to be forwarded to Eurofins as per COC.
- Sample TRP01 was not recieved.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

: 11-Apr-2025 Issue Date

Page

2 of 4 ES2510317 Amendment 0 Work Order Client : EP RISK MANAGEMENT



Sample Container(s)/Preservation Non-Compliances

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

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may process necessary for the executi tasks. Packages may contain ad as the determination of moisture tasks, that are included in the package. If no sampling time is provided, default 00:00 on the date of samplin is provided, the sampling date will laboratory and displayed in braccomponent Matrix: SOIL	on of client requested ditional analyses, such content and preparation the sampling time will g. If no sampling date	On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP080 BTEXN	SOIL - P-22 (WA/SYD) NEPM Screen for Soil Classification WA	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
Laboratory sample Sampling date / ID time	On Ho Vo ana	SOIL - Moistur	SOIL - E BTEXN	SOIL -	SOIL - TRH/B	SOIL - TRH(C	
ES2510317-001 08-Apr-2025 00:00	TP01_0.1	<u> </u>	✓	07 11	U) <u>L</u>	✓	υ ν
ES2510317-002 08-Apr-2025 00:00	TP01_0.5	✓					
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ES2510317-004 08-Apr-2025 00:00	TP01_2.0	✓					
ES2510317-005 08-Apr-2025 00:00	TP02_0.1		✓			✓	
ES2510317-006 08-Apr-2025 00:00	TP02_0.5	✓					
ES2510317-007 08-Apr-2025 00:00	TP02_1.0	✓					
ES2510317-008 08-Apr-2025 00:00	TP03_0.1		✓			✓	
ES2510317-009 08-Apr-2025 00:00	TP03_0.5	✓					
ES2510317-010 08-Apr-2025 00:00	TP03_1.0	✓					
ES2510317-011 08-Apr-2025 00:00	TP03_2.0	✓					
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ES2510317-019 08-Apr-2025 00:00	TP05_1.0	✓					
ES2510317-020 08-Apr-2025 00:00	TP05_2.0	✓					
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ES2510317-022 08-Apr-2025 00:00	TP06_0.5	✓					
ES2510317-023 08-Apr-2025 00:00	TP06_1.0	✓					
ES2510317-024 08-Apr-2025 00:00	TP06_2.0	✓					
ES2510317-025 08-Apr-2025 00:00	TP06_3.0	√					
ES2510317-026 08-Apr-2025 00:00	TP07_0.1		✓			✓	
ES2510317-027 08-Apr-2025 00:00	TP07_0.5	✓					
ES2510317-028 08-Apr-2025 00:00	TP07_1.0	✓					
ES2510317-029 08-Apr-2025 00:00	TP07_2.0	✓					
ES2510317-030 08-Apr-2025 00:00	TP07_3.0	✓					
ES2510317-031 08-Apr-2025 00:00	TP08_0.1		✓			✓	
ES2510317-032 08-Apr-2025 00:00	TP08_0.5	✓					
ES2510317-033 08-Apr-2025 00:00	TP08_1.0	✓					
ES2510317-034 08-Apr-2025 00:00	TP08_2.0	✓					
ES2510317-035 08-Apr-2025 00:00	TP08_3.0	✓					

Issue Date : 11-Apr-2025

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: 3 of 4 : ES2510317 Amendment 0 Work Order Client : EP RISK MANAGEMENT



			(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP080 BTEXN	SOIL - P-22 (WA/SYD) NEPM Screen for Soil Classification WA	SOIL - S-16 TRH/BTEXN/PAH/OC/OP/PCB/8Metals	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
ES2510317-036	08-Apr-2025 00:00	TP09_0.1		✓			✓	
ES2510317-037	08-Apr-2025 00:00	TP09_0.5	√					
ES2510317-038	08-Apr-2025 00:00	TP09_1.0	√					
ES2510317-039	08-Apr-2025 00:00	TP09_2.0	✓					
ES2510317-040	08-Apr-2025 00:00	TP09_3.0	✓					
ES2510317-041	08-Apr-2025 00:00	TP10_0.1		✓			✓	
ES2510317-042	08-Apr-2025 00:00	TP10_0.5	✓					
ES2510317-043	08-Apr-2025 00:00	TP10-1.0	✓					
ES2510317-044	08-Apr-2025 00:00	TP10_2.0	✓					
ES2510317-045	08-Apr-2025 00:00	TP11_0.1		✓			✓	
ES2510317-046	08-Apr-2025 00:00	TP11_0.5	✓					
ES2510317-047	08-Apr-2025 00:00	TP11_1.0	✓					
ES2510317-048	08-Apr-2025 00:00	TP11_2.0	✓					
ES2510317-049	08-Apr-2025 00:00	TP12_0.1		✓			✓	
ES2510317-050	08-Apr-2025 00:00	TP12_0.5	✓					
ES2510317-051	08-Apr-2025 00:00	TP12_1.0	✓					
ES2510317-052	08-Apr-2025 00:00	TP01_3.0	✓					
ES2510317-053	08-Apr-2025 00:00	TP03_3.0	✓					
ES2510317-055	04-Apr-2025 00:00	TB01						✓
ES2510317-057	08-Apr-2025 00:00	QA01		✓			✓	
ES2510317-058	08-Apr-2025 00:00	NEPM_0.1		✓		✓		
ES2510317-059	04-Apr-2025 00:00	Trip Spike			✓			
ES2510317-060	04-Apr-2025 00:00	TSC			✓			

WATER - W-26T TRH/BTEXN/PAH/Total 8 Metals Matrix: WATER Sample ID Laboratory sample Sampling date / time ES2510317-056 08-Apr-2025 00:00 RQ01

Issue Date : 11-Apr-2025

Page

: 4 of 4 : ES2510317 Amendment 0 Work Order Client : EP RISK MANAGEMENT



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

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice (INV) Email accounts@eprisk.com.au **Mathew Cheshire** - *AU Certificate of Analysis - NATA (COA) mathew.cheshire@eprisk.com.au Email - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email mathew.cheshire@eprisk.com.au - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email mathew.cheshire@eprisk.com.au - A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email mathew.cheshire@eprisk.com.au - Chain of Custody (CoC) (COC) Email mathew.cheshire@eprisk.com.au - EDI Format - ESDAT (ESDAT) Email mathew.cheshire@eprisk.com.au

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density



CERTIFICATE OF ANALYSIS

Work Order : ES2510317

Client : EP RISK MANAGEMENT

Contact : MR Mathew Cheshire

Address : 3/19 BOLTON STREET

NEWCASTLE NSW 2300

Telephone : ---

Project : EP3269
Order number : EP3269

C-O-C number : ---Sampler : MC
Site : ----

Site : ----

Quote number : ES23EPRISK0002 - ES PRIMARY WORK ONLY

No. of samples received : 59

No. of samples analysed : 18

Page : 1 of 23

Laboratory : Environmental Division Sydney

Contact : Jason Dighton

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 10-Apr-2025 07:51

Date Analysis Commenced : 14-Apr-2025

Issue Date : 17-Apr-2025 17:32

Accreditation Catagoni



Accreditation No. 825 Accredited for compliance with ISO/IEC 17025 - Testing

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Aleksandar Vujkovic	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW

Edwandy Fadjar Organic Coordinator Sydney Inorganics, Smithfield, NSW Edwandy Fadjar Organic Coordinator Sydney Organics, Smithfield, NSW Wisam Marassa Inorganics Coordinator Sydney Inorganics, Smithfield, NSW

Page : 2 of 23 Work Order : ES2510317

Client : EP RISK MANAGEMENT

Project : EP3269

General Comments

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

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

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

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

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

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

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

LOR = Limit of reporting

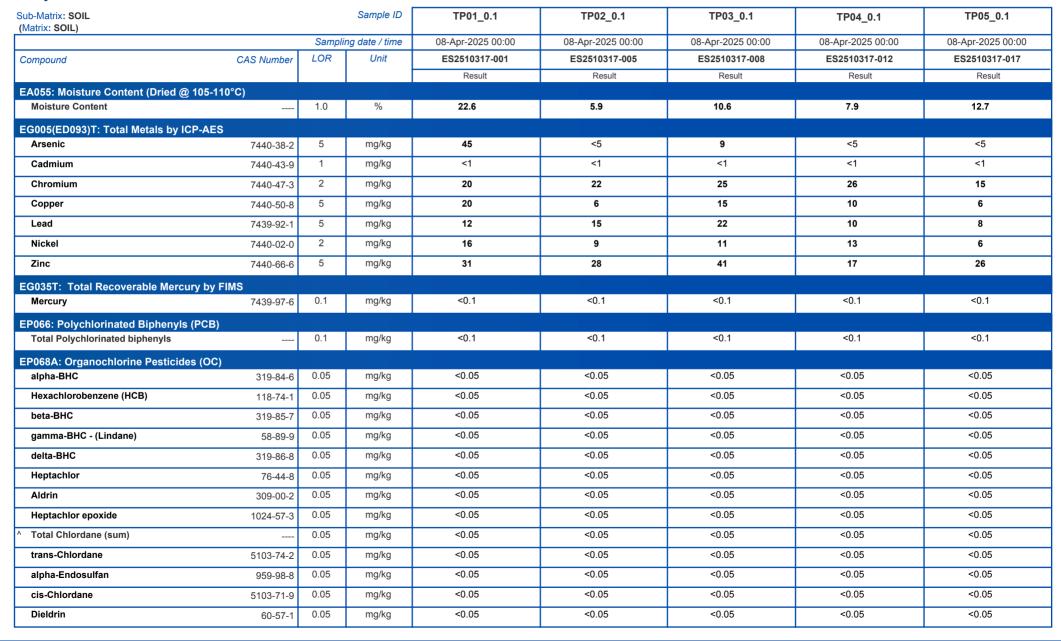
- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- ALS is not NATA accredited for the analysis of Exchangeable Cations on Alkaline Soils when performed under ALS Method ED006.
- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(q.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP080: The trip spike and its control have been analysed for volatile TPH and BTEXN only. The trip spike and control were prepared in the lab using reagent grade sand spiked with petrol. The spike was dispatched from the lab and the control retained.
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCI Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity (H+ + Al3+).



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Client : EP RISK MANAGEMENT

Project : EP3269

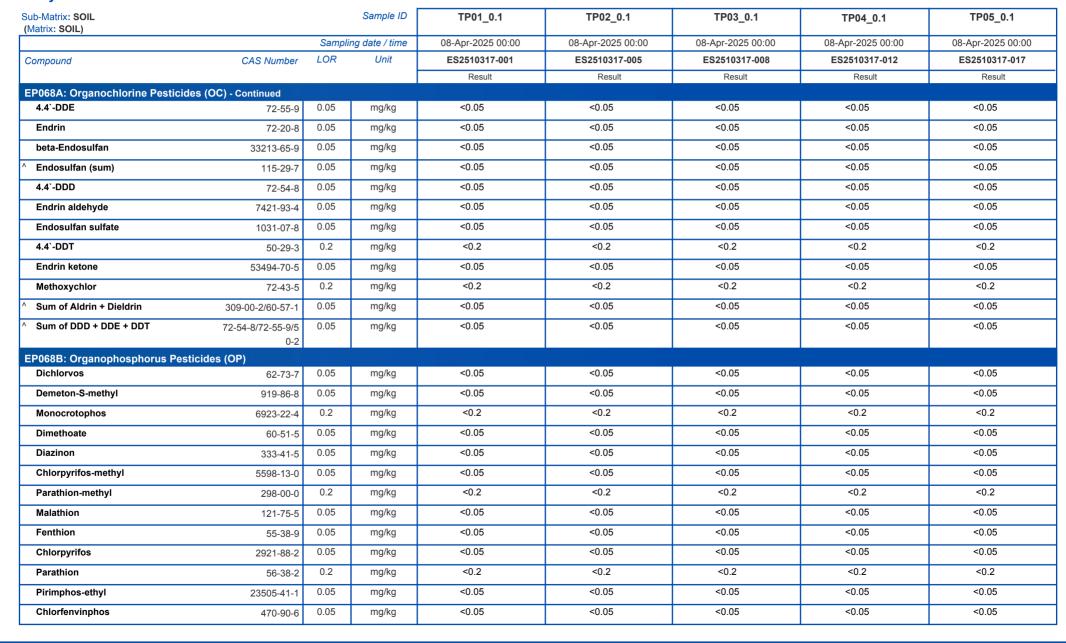




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Client : EP RISK MANAGEMENT

Project : EP3269

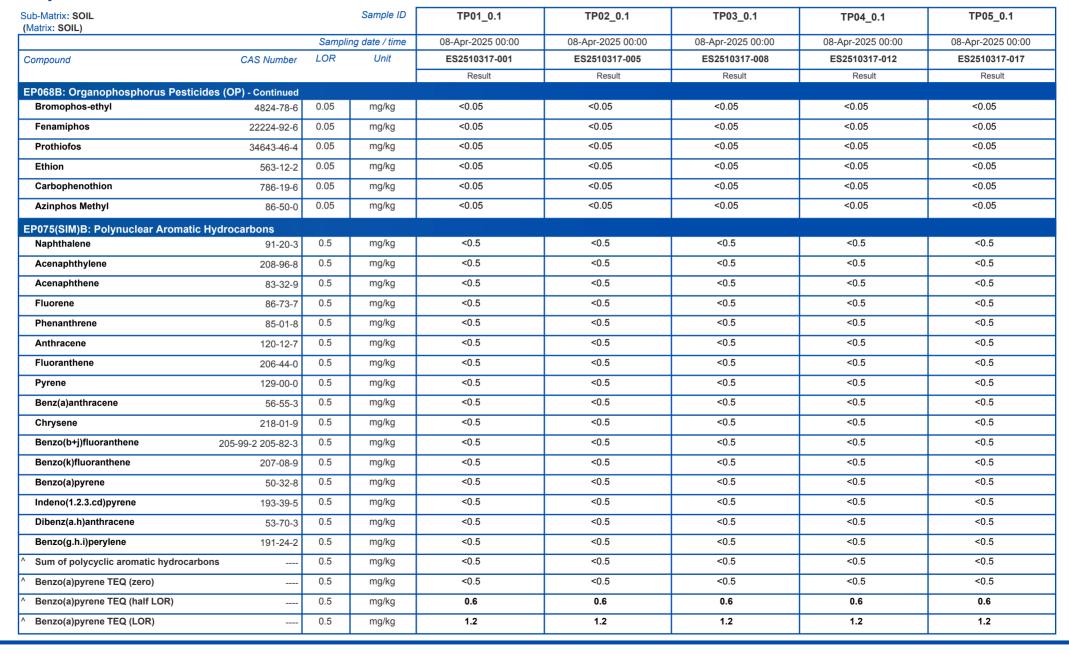




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Client : EP RISK MANAGEMENT

Project : EP3269

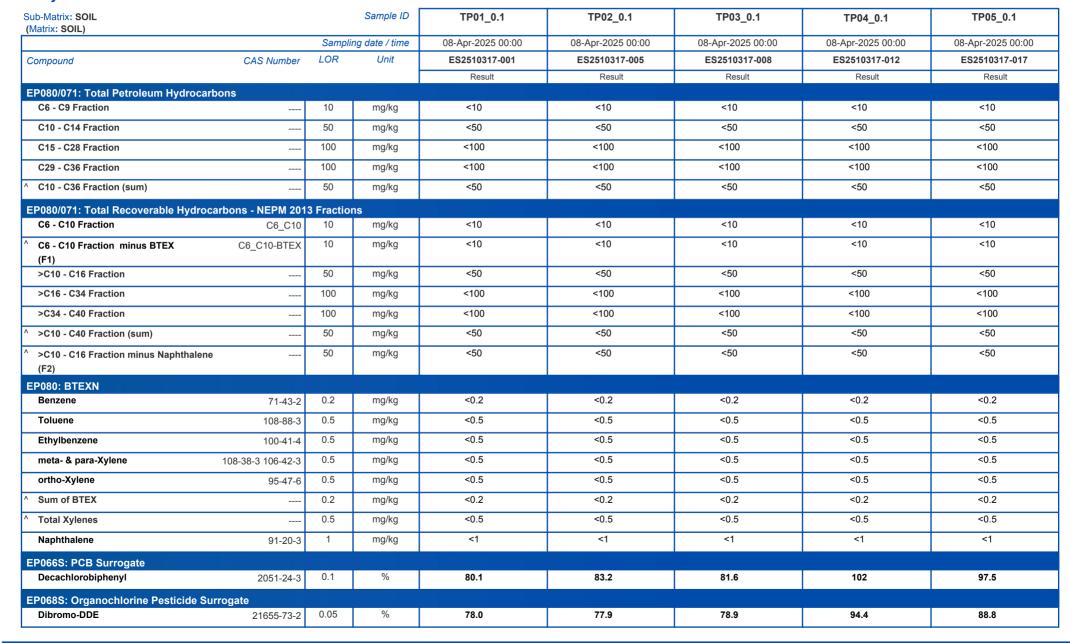




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Client : EP RISK MANAGEMENT

Project : EP3269

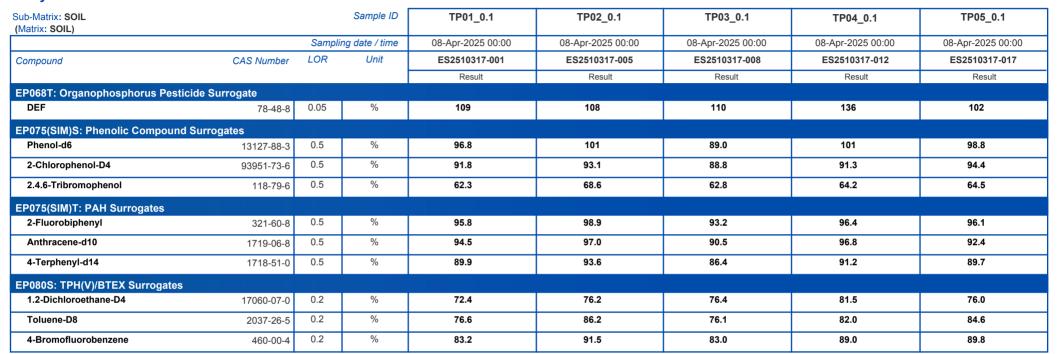




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Client : EP RISK MANAGEMENT

Project : EP3269

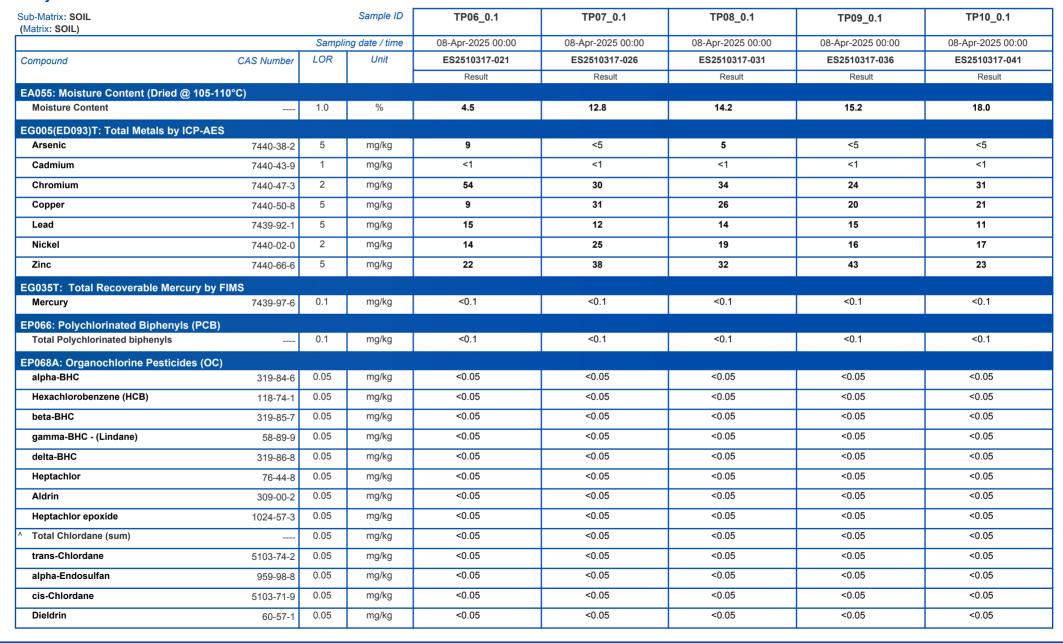




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Client : EP RISK MANAGEMENT

Project : EP3269

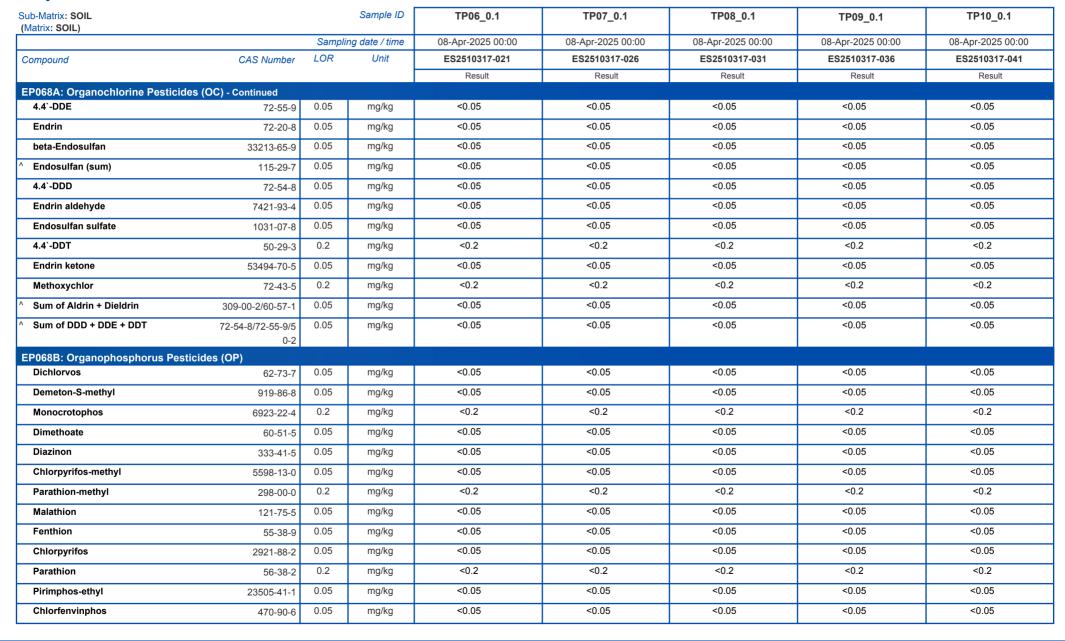




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Client : EP RISK MANAGEMENT

Project : EP3269

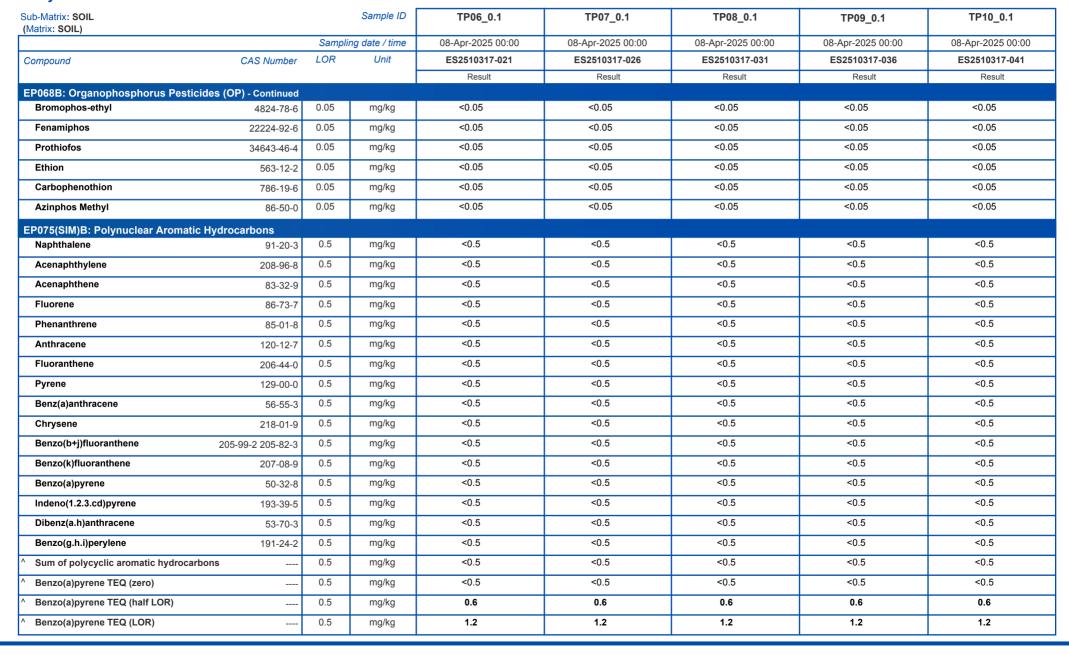




Page : 10 of 23 Work Order : ES2510317

Client : EP RISK MANAGEMENT

Project : EP3269

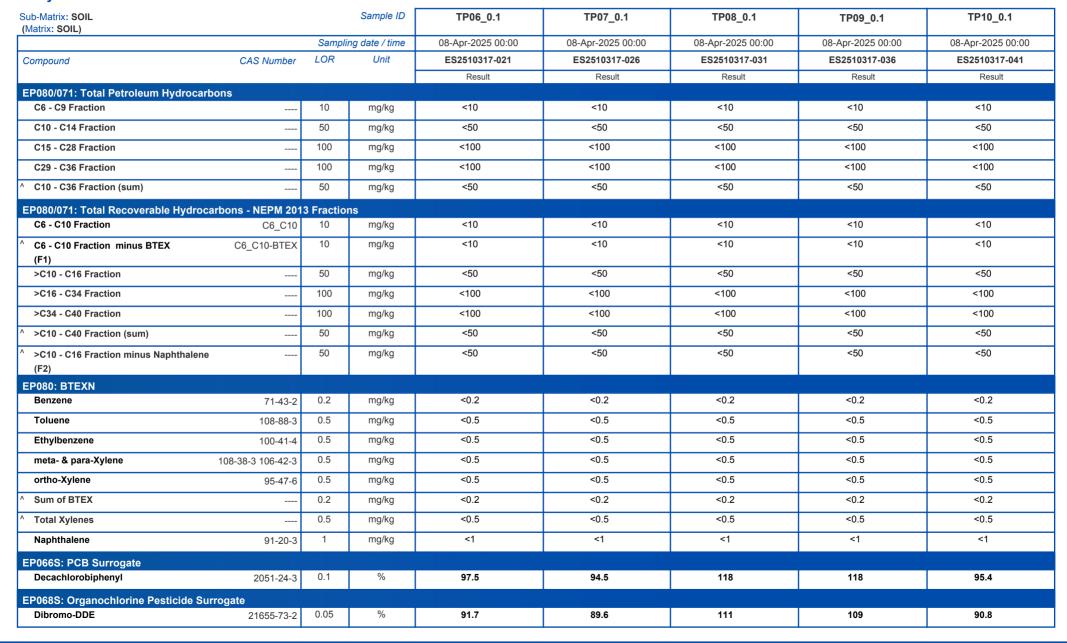




Page : 11 of 23 Work Order : ES2510317

Client : EP RISK MANAGEMENT

Project : EP3269

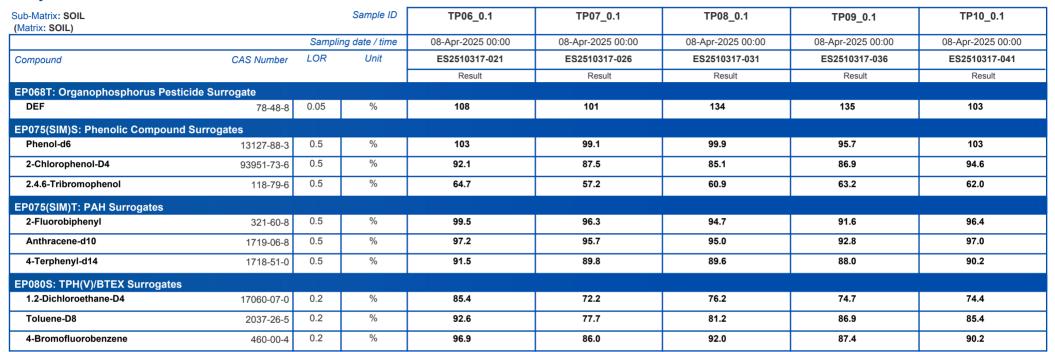




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Client : EP RISK MANAGEMENT

Project · EP3269

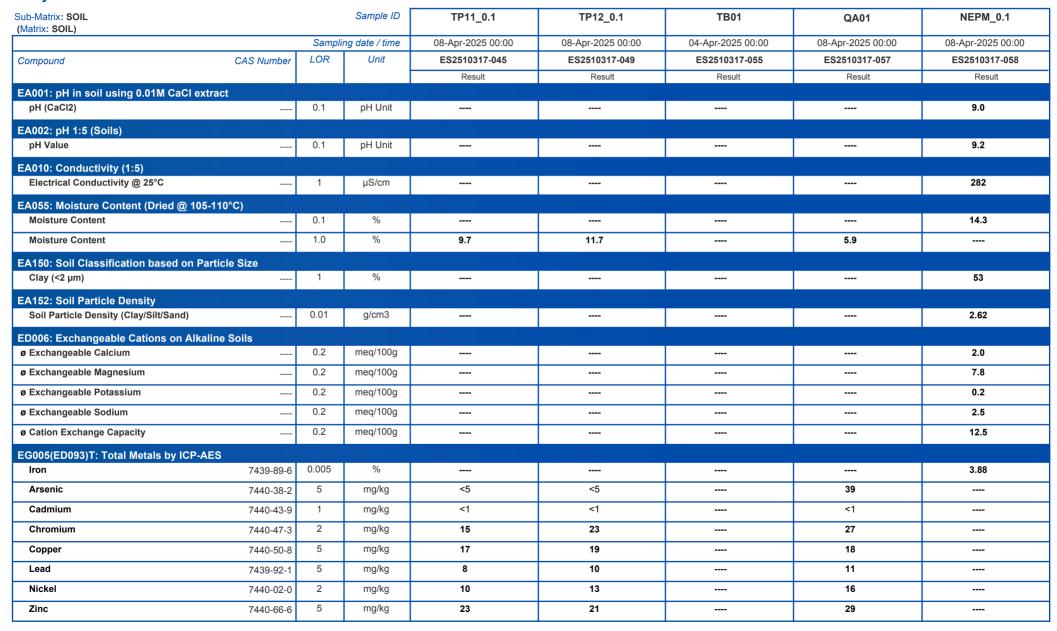




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Client : EP RISK MANAGEMENT

Project : EP3269





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Client : EP RISK MANAGEMENT

Project : EP3269

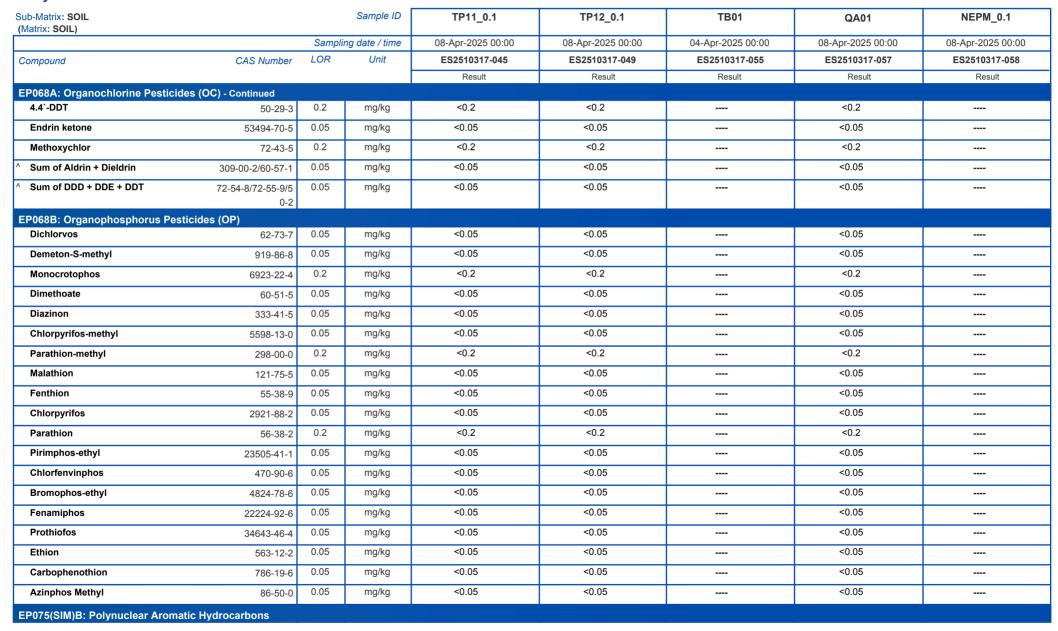




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Client : EP RISK MANAGEMENT

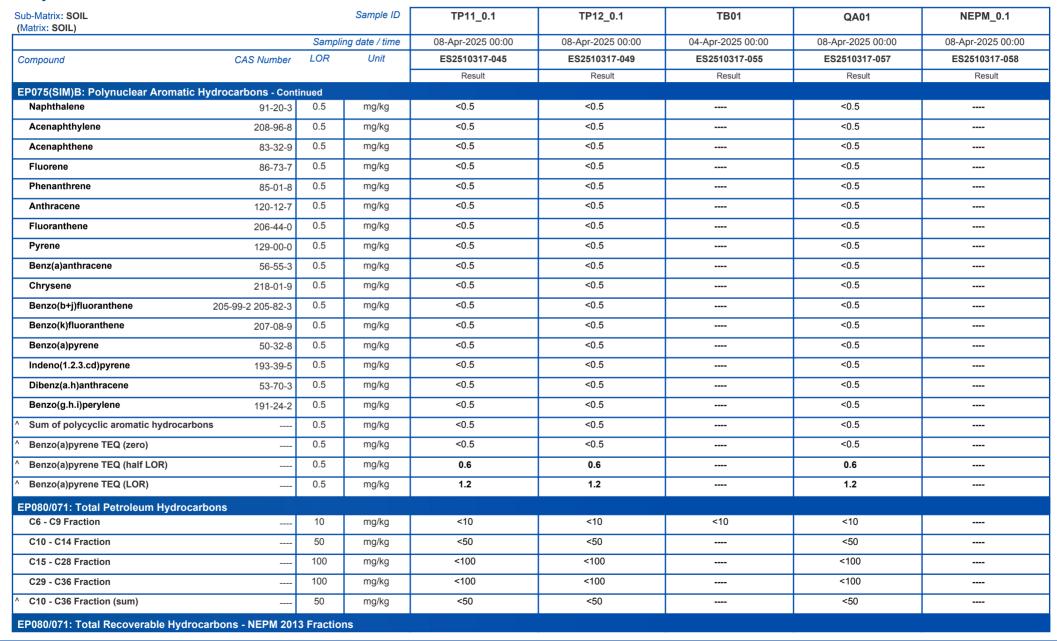
Project : EP3269



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Client : EP RISK MANAGEMENT

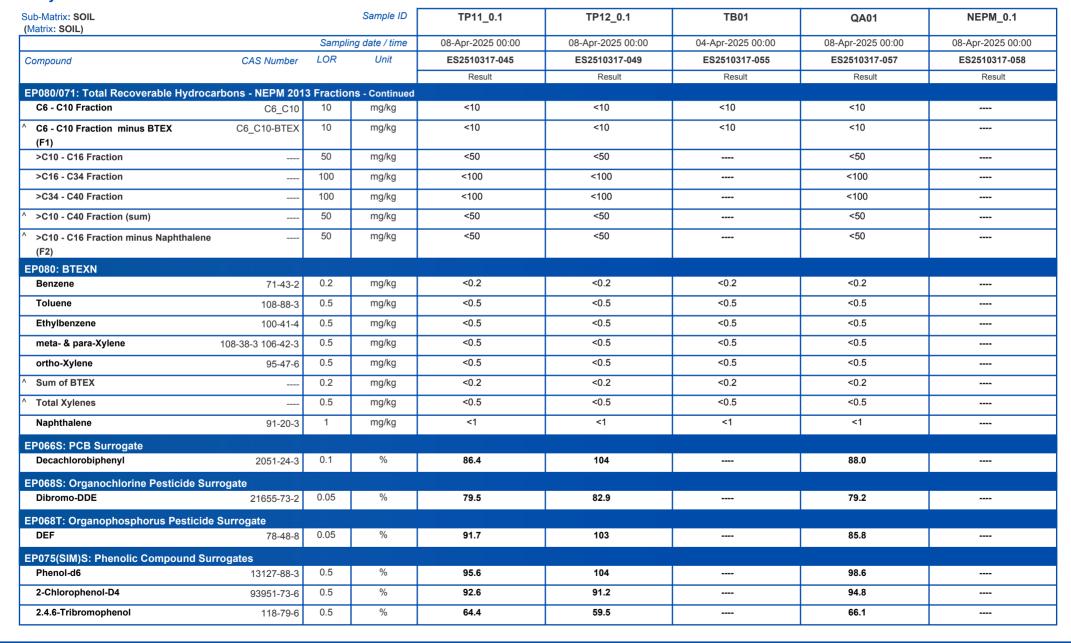
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Client : EP RISK MANAGEMENT

Project : EP3269

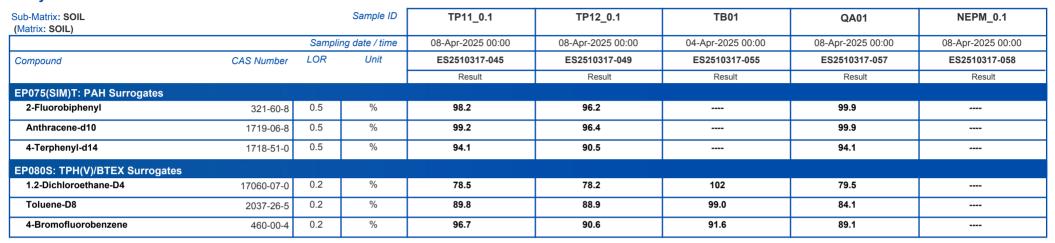




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Client : EP RISK MANAGEMENT

Project : EP3269





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Client : EP RISK MANAGEMENT

Project : EP3269



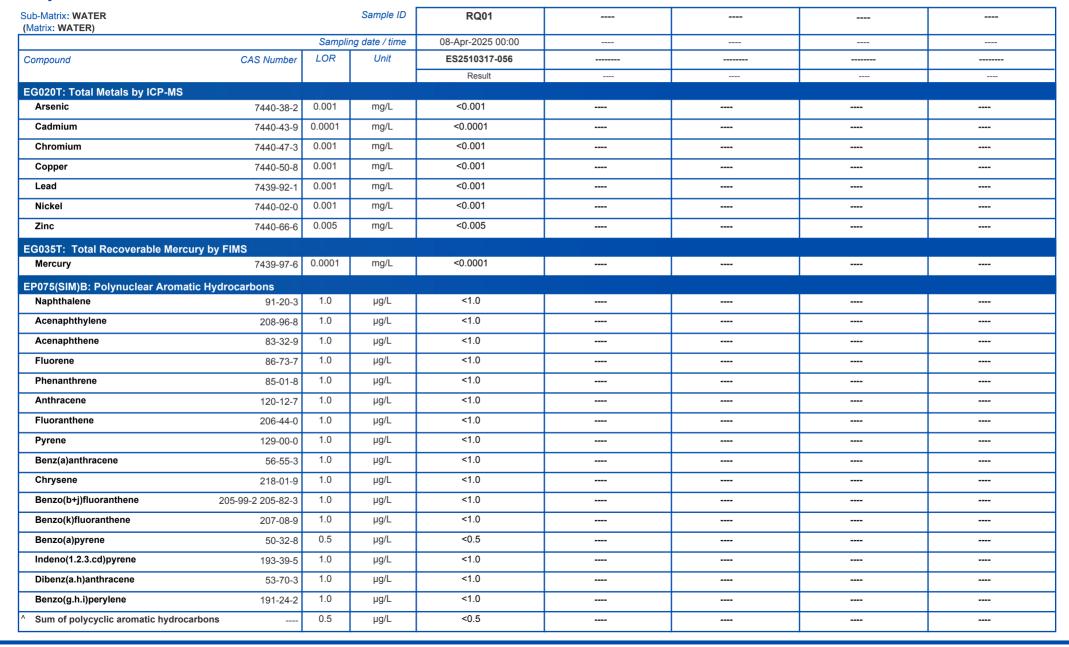


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Client : EP RISK MANAGEMENT

Project : EP3269

Analytical Results





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Client : EP RISK MANAGEMENT

Project : EP3269

Analytical Results



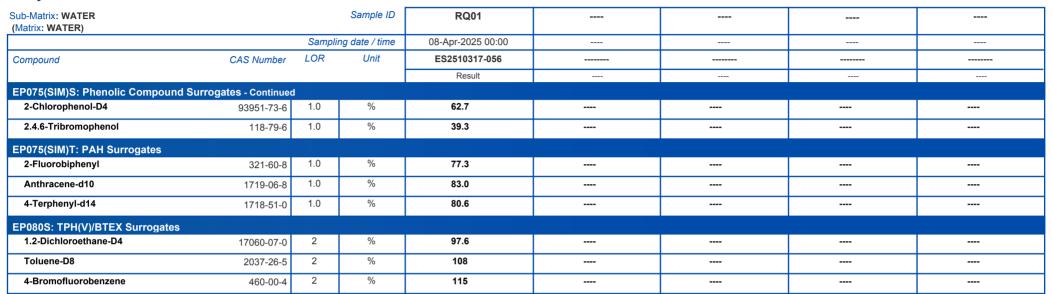


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Client : EP RISK MANAGEMENT

Project : EP3269

Analytical Results



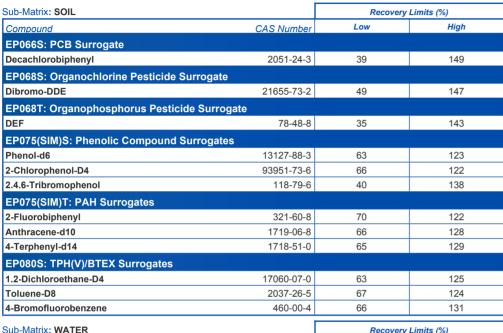


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Client : EP RISK MANAGEMENT

Project : EP3269

Surrogate Control Limits



Sub-Matrix: WATER		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2.4.6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry / Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density





Telephone

Site

QUALITY CONTROL REPORT

: +61-2-8784 8555

: 17-Apr-2025

Work Order : **ES2510317** Page : 1 of 19

Client : **EP RISK MANAGEMENT** Laboratory : Environmental Division Sydney

Contact : MR Mathew Cheshire Contact : Jason Dighton

Address : 3/19 BOLTON STREET Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

NEWCASTLE NSW 2300

Project: EP3269Date Samples Received: 10-Apr-2025Order number: EP3269Date Analysis Commenced: 14-Apr-2025

C-O-C number : ---- Issue Date
Sampler : MC

Quote number : ES23EPRISK0002 - ES PRIMARY WORK ONLY

No. of samples received : 59

No. of samples analysed : 18

Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Aleksandar Vujkovic	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

Page : 2 of 19 Work Order : ES2510317

Client : EP RISK MANAGEMENT

Project : EP3269

General Comments

Cult Matrice COII

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

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

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

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

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

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUD) Banart

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: To	tal Metals by ICP-AES	(QC Lot: 6511441)							
ES2509409-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	5	6	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	9	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	39	42	7.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	56	54	3.0	0% - 50%
		EG005T: Iron	7439-89-6	50	mg/kg	3920	3920	0.0	0% - 20%
ES2510282-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	21	17	19.8	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	12	9	29.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	19	19	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	170	144	16.3	0% - 20%
EG005(ED093)T: To	tal Metals by ICP-AES	(QC Lot: 6511444)							
ES2510317-026	TP07_0.1	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	30	29	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	25	28	14.4	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	31	26	18.0	No Limit

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Work Order : ES2510317

Client : EP RISK MANAGEMENT



Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Report	•	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Tot	al Metals by ICP-AES	(QC Lot: 6511444) - continued							
ES2510317-026	TP07_0.1	EG005T: Lead	7439-92-1	5	mg/kg	12	12	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	38	38	0.0	No Limit
		EG005T: Iron	7439-89-6	50	mg/kg	30300	29400	3.0	0% - 20%
ES2510319-004	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	25	24	7.5	0% - 20%
		EG005T: Chromium	7440-47-3	2	mg/kg	392	438	11.0	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	78	68	14.3	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	248	223	10.6	0% - 20%
		EG005T: Copper	7440-50-8	5	mg/kg	3500	2980	16.0	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	648	759	15.8	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	8070	7320	9.8	0% - 20%
		EG005T: Iron	7439-89-6	50	mg/kg	3360	2880	15.6	0% - 20%
EA001: pH in soil us	ing 0.01M CaCl extrac	t (QC Lot: 6517908)							
ES2510317-058	NEPM_0.1	EA001: pH (CaCl2)		0.1	pH Unit	9.0	9.1	1.6	0% - 20%
EA002: pH 1:5 (Soils	(QC Lot: 6511439)								
ES2509409-001	Anonymous	EA002: pH Value		0.1	pH Unit	7.6	7.6	0.0	0% - 20%
ES2509409-012	Anonymous	EA002: pH Value		0.1	pH Unit	6.0	6.0	0.0	0% - 20%
EA010: Conductivity	(1:5) (QC Lot: 651144	40)							
ES2509409-001	Anonymous	EA010: Electrical Conductivity @ 25°C		1	μS/cm	118	111	6.3	0% - 20%
ES2509409-012	Anonymous	EA010: Electrical Conductivity @ 25°C		1	μS/cm	57	61	6.1	0% - 20%
EA055: Moisture Co	ntent (Dried @ 105-110	0°C) (QC Lot: 6510347)							
ES2510317-045	TP11_0.1	EA055: Moisture Content		0.1 (1.0)*	%	9.7	7.3	27.7	No Limit
ES2510650-011	Anonymous	EA055: Moisture Content		0.1 (1.0)*	%	18.5	18.4	0.0	0% - 50%
EA055: Moisture Co	ntent (Dried @ 105-110	0°C) (QC Lot: 6511449)							
ES2509409-002	Anonymous	EA055: Moisture Content		0.1 (1.0)*	%	17.8	17.8	0.0	0% - 50%
ES2509409-011	Anonymous	EA055: Moisture Content		0.1 (1.0)*	%	9.4	9.9	5.8	No Limit
EA055: Moisture Co	ntent (Dried @ 105-110	0°C) (QC Lot: 6511450)							
ES2510317-031	TP08_0.1	EA055: Moisture Content		0.1 (1.0)*	%	14.2	14.4	1.7	0% - 50%
ES2510319-004	Anonymous	EA055: Moisture Content		0.1 (1.0)*	%	<1.0	<1.0	0.0	No Limit
ED006: Exchangeab	le Cations on Alkaline	Soils (QC Lot: 6517920)							
ES2510317-058	NEPM_0.1	ED006: Exchangeable Calcium		0.2	meq/100g	2.0	2.0	0.0	No Limit
		ED006: Exchangeable Magnesium		0.2	meq/100g	7.8	7.9	1.3	0% - 20%
		ED006: Exchangeable Potassium		0.2	meq/100g	0.2	0.2	0.0	No Limit
		ED006: Exchangeable Sodium		0.2	meq/100g	2.5	2.5	0.0	0% - 50%
		ED006: Cation Exchange Capacity		0.2	meq/100g	12.5	12.6	0.0	0% - 20%
EG035T: Total Reco	overable Mercury by FI	MS (QC Lot: 6511443)							
ES2509409-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

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Client : EP RISK MANAGEMENT



Sub-Matrix: SOIL						Laboratory l	Duplicate (DUP) Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG035T: Total Reco	overable Mercury by I	FIMS (QC Lot: 6511443) - continued	l i						
ES2510282-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Reco	overable Mercury by I	FIMS (QC Lot: 6511445)							
ES2510317-026	TP07_0.1	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2510319-004	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP004: Organic Matt	ter (QC Lot: 6507490))							
ES2510317-058	NEPM_0.1	EP004: Organic Matter		0.5	%	0.7	0.6	0.0	No Limit
	_	EP004: Total Organic Carbon		0.5	%	<0.5	<0.5	0.0	No Limit
EP066: Polychlorina	ted Biphenyls (PCB)	(QC Lot: 6508019)							
ES2510317-001	TP01_0.1	EP066: Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2510317-045	TP11_0.1	EP066: Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochio	orine Pesticides (OC)								
ES2510317-001	TP01 0.1	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2510317-045	TP11_0.1	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
	•		'		•	•	•		•

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Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Repor	t	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochi	orine Pesticides (OC) (QC Lot: 6508018) - continued							
ES2510317-045	TP11_0.1	EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP068B: Organopho	osphorus Pesticides	(OP) (QC Lot: 6508018)							
ES2510317-001	TP01_0.1	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
ES2510317-045	TP11_0.1	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Report	•	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organopho	sphorus Pesticides (OP)) (QC Lot: 6508018) - continued							
ES2510317-045	TP11_0.1	EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polyni	ıclear Aromatic Hydroca	arbons (QC Lot: 6508017)							
ES2510317-001	TP01_0.1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Sub-Matrix: SOIL							Duplicate (DUP) Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%
EP075(SIM)B: Poly	nuclear Aromatic Hydr	rocarbons (QC Lot: 6508017) - continued							
ES2510317-045	TP11_0.1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		hydrocarbons		0.5		-0.5	-0.5	0.0	NI - Limite
		EP075(SIM): Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
	etroleum Hydrocarbon								
ES2510317-005	TP02_0.1	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ES2510317-045	TP11_0.1	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
P080/071: Total P	etroleum Hydrocarbon	s (QC Lot: 6507817)							
ES2510515-001	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ES2510515-006	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
P080/071: Total P	etroleum Hydrocarbon	s (QC Lot: 6508016)							
ES2510317-001	TP01_0.1	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES2510317-045	TP11_0.1	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total R	ecoverable Hydrocarb	ons - NEPM 2013 Fractions (QC Lot: 6507805)							
ES2510317-005	TP02_0.1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2510317-045	TP11 0.1	EP080: C6 - C10 Fraction	C6 C10	10	mg/kg	<10	<10	0.0	No Limit

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Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Re	coverable Hydrocar	bons - NEPM 2013 Fractions (QC Lot: 6507817) - coi	ntinued						
ES2510515-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2510515-006	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Re	coverable Hydrocar	bons - NEPM 2013 Fractions (QC Lot: 6508016)							
ES2510317-001	TP01_0.1	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES2510317-045	TP11_0.1	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC	Lot: 6507805)								
ES2510317-005	TP02_0.1	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3						
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2510317-045	TP11_0.1	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3						
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC	Lot: 6507817)								
ES2510515-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3						
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E00540545 555		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2510515-006	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EDOSO, artha Vidana	106-42-3 95-47-6	0.5	ma/ka	<0.5	<0.5	0.0	No Limit
I		EP080: ortho-Xylene	90-47-0	0.0	mg/kg	\0. 0	~ 0.0	0.0	INO LIITIIL

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Laboratory sample D Sample D Method: Compound	CAS Number 91-20-3 CAS Number 7440-43-9 7440-38-2 7440-47-3 7440-50-8 7439-92-1 7440-02-0	LOR 1 LOR 0.0001 0.001 0.001	Unit mg/kg Unit mg/L	Original Result <1 Laboratory D Original Result <0.0001	Ouplicate Result <1 Duplicate (DUP) Report Duplicate Result	0.0 RPD (%)	Acceptable RPD (%) No Limit Acceptable RPD (%)
ES2510515-006	7440-43-9 7440-47-3 7440-50-8 7439-92-1 7440-02-0	LOR 0.0001 0.001	<i>Unit</i> mg/L	Laboratory L Original Result	Ouplicate (DUP) Report		
Sub-Matrix: WATER	7440-43-9 7440-47-3 7440-50-8 7439-92-1 7440-02-0	LOR 0.0001 0.001	<i>Unit</i> mg/L	Laboratory L Original Result	Ouplicate (DUP) Report		
Educatory sample ID Sample ID Method: Compound	7440-43-9 7440-38-2 7440-47-3 7440-50-8 7439-92-1 7440-02-0	0.0001 0.001	mg/L	Original Result			Accentable PPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 6514059) ES2509655-002	7440-43-9 7440-38-2 7440-47-3 7440-50-8 7439-92-1 7440-02-0	0.0001 0.001	mg/L		Duplicate Result	RPD (%)	Accentable RPD (%)
ES2509655-002	7440-38-2 7440-47-3 7440-50-8 7439-92-1 7440-02-0	0.001		<0.0001			Acceptable NFD (70)
EG020A-T: Arsenic	7440-38-2 7440-47-3 7440-50-8 7439-92-1 7440-02-0	0.001		<0.0001			
EG020A-T: Chromium	7440-47-3 7440-50-8 7439-92-1 7440-02-0		/I		<0.0001	0.0	No Limit
EG020A-T: Copper	7440-50-8 7439-92-1 7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020A-T: Lead	7439-92-1 7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020A-T: Lead	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020A-T: Zinc		0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020A-T: Zinc	7440.00.0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
ME2500492-025	7440-66-6	0.005	mg/L	0.006	0.006	0.0	No Limit
EG020A-T: Arsenic EG020A-T: Chromium EG020A-T: Copper EG020A-T: Lead EG020A-T: Nickel EG020A-T: Arsenic EG020A-T: Arsen	7440-66-6	0.005	mg/L	0.012	0.013	0.0	No Limit
EG020A-T: Chromium EG020A-T: Copper EG020A-T: Lead EG020A-T: Nickel EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EG020A-T: Copper	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG020A-T: Lead EG020A-T: Nickel EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6514071) ED2500581-001 Anonymous EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7440-47-3	0.001	mg/L	0.002	0.002	0.0	No Limit
EG020A-T: Lead EG020A-T: Nickel EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6514071) ED2500581-001 Anonymous EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7440-50-8	0.001	mg/L	0.007	0.008	20.5	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6514071) ED2500581-001 Anonymous EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
ED2500581-001 Anonymous EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7440-02-0	0.001	mg/L	<0.001	0.002	80.3	No Limit
ED2500581-001 Anonymous EG035T: Mercury ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)							
ES2509655-002 Anonymous EG035T: Mercury EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7439-97-6	0.0001	mg/L	<0.1 µg/L	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6510355) ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2510434-001 Anonymous EP080: C6 - C9 Fraction ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)							
ES2510478-001 Anonymous EP080: C6 - C9 Fraction EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)		20	μg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)		20	μg/L	<20	<20	0.0	No Limit
ES2510434-001 Anonymous EP080: C6 - C10 Fraction ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	ot: 6510355)		10				
ES2510478-001 Anonymous EP080: C6 - C10 Fraction EP080: BTEXN (QC Lot: 6510355)	C6 C10	20	μg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 6510355)		20	μg/L	<20	<20	0.0	No Limit
	71-43-2	1	μg/L	<1	<1	0.0	No Limit
EP080: Toluene	108-88-3	2	μg/L	<2	<2	0.0	No Limit
EP080: Ethylbenzene	100-41-4	2	μg/L	<2	<2	0.0	No Limit
EP080: meta- & para-Xylen		2	μg/L	<2	<2	0.0	No Limit
EP080: ortho-Xylene	106-42-3	2	μg/L	<2	<2	0.0	No Limit
EP080: Naphthalene		5	μg/L	<5	<5	0.0	No Limit
ES2510478-001 Anonymous EP080: Benzene	106-42-3	1	μg/L	<1	<1	0.0	No Limit
EP080: Toluene	106-42-3 95-47-6	2	μg/L	<2	<2	0.0	No Limit

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Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EP080: BTEXN (QC	Lot: 6510355) - continued									
ES2510478-001	Anonymous	EP080: Ethylbenzene	100-41-4	2	μg/L	<2	<2	0.0	No Limit	
		EP080: meta- & para-Xylene	108-38-3	2	μg/L	<2	<2	0.0	No Limit	
			106-42-3							
		EP080: ortho-Xylene	95-47-6	2	μg/L	<2	<2	0.0	No Limit	
		EP080: Naphthalene	91-20-3	5	μg/L	<5	<5	0.0	No Limit	

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Project : EP3269



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

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

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report		
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6511441)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	98.0	88.0	113	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	81.1	70.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	104	68.0	132	
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	97.8	89.0	111	
EG005T: Iron	7439-89-6	50	mg/kg	<50	31660 mg/kg	99.3	89.0	112	
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	92.5	82.0	119	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	95.6	80.0	120	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	88.3	66.0	133	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6511444)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	99.2	88.0	113	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	88.3	70.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	112	68.0	132	
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	106	89.0	111	
EG005T: Iron	7439-89-6	50	mg/kg	<50	31660 mg/kg	104	89.0	112	
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	99.4	82.0	119	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100	80.0	120	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	93.7	66.0	133	
EA002: pH 1:5 (Soils) (QCLot: 6511439)									
EA002: pH Value			pH Unit		4 pH Unit	101	98.8	101	
					7 pH Unit	101	98.8	101	
EA010: Conductivity (1:5) (QCLot: 6511440)									
EA010: Electrical Conductivity @ 25°C		1	μS/cm	<1	1412 μS/cm	103	92.0	108	
ED006: Exchangeable Cations on Alkaline Soils (QCLot: 65'	17920)								
ED006: Exchangeable Calcium		0.2	meq/100g	<0.2	2.5 meq/100g	96.7	80.0	110	
ED006: Exchangeable Magnesium		0.2	meq/100g	<0.2	4.17 meq/100g	99.8	80.0	110	
ED006: Exchangeable Potassium		0.2	meq/100g	<0.2	1.28 meq/100g	101	80.0	110	
ED006: Exchangeable Sodium		0.2	meq/100g	<0.2	2.17 meq/100g	101	80.0	110	
ED006: Cation Exchange Capacity		0.2	meq/100g	<0.2					
EG035T: Total Recoverable Mercury by FIMS (QCLot: 65114	443)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	96.0	70.0	125	
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Client : EP RISK MANAGEMENT



Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG035T: Total Recoverable Mercury by FIMS (QCL								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	96.0	70.0	125
EP004: Organic Matter (QCLot: 6507490)								
EP004: Organic Matter		0.5	%	<0.5	2.53 %	85.0	76.0	98.7
EP004: Total Organic Carbon		0.5	%	<0.5	1.46 %	85.6	76.4	99.3
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 6	508019)							
EP066: Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	1 mg/kg	97.8	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 6	5508018)							
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	86.1	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	67.0	119
EP068: gamma-BHC - (Lindane)	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.4	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	100	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	104	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.4	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	102	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	107	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	100	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.3	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	84.0	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	90.4	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.1	54.0	130
EP068B: Organophosphorus Pesticides (OP) (QCL	ot: 6508018)							
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	59.0	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.5	62.0	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	98.1	54.0	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	100	67.0	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	101	70.0	120

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Client : EP RISK MANAGEMENT



Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LCS) Report			
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EP068B: Organophosphorus Pesticides (OP) (Q	•								
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	107	72.0	120	
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	97.8	68.0	120	
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	102	68.0	122	
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	69.0	117	
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	100	76.0	118	
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	98.2	64.0	122	
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	104	70.0	116	
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	100	69.0	121	
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	104	66.0	118	
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	107	68.0	124	
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	81.7	62.0	112	
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	83.8	68.0	120	
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.2	65.0	127	
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	82.4	41.0	123	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbo	ns (QCLot: 6508017)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	98.7	77.0	125	
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	98.2	72.0	124	
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	99.3	73.0	127	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	99.7	72.0	126	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	102	75.0	127	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	96.5	77.0	127	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	101	73.0	127	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	99.9	74.0	128	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	93.7	69.0	123	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	93.2	75.0	127	
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	94.2	68.0	116	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	94.9	74.0	126	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	89.8	70.0	126	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	94.0	61.0	121	
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	95.0	62.0	118	
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	98.6	63.0	121	
EP080/071: Total Petroleum Hydrocarbons (QCL	.ot: 6507805)								
EP080: C6 - C9 Fraction		10	mg/kg	<10	26 mg/kg	85.0	72.2	131	

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Client : EP RISK MANAGEMENT



Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LCS) Report		
				Report	Spike	Spike Recovery (%)	Acceptable	e Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 650781	7)							
EP080: C6 - C9 Fraction		10	mg/kg	<10	26 mg/kg	93.8	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 650801	6)							
EP071: C10 - C14 Fraction		50	mg/kg	<50	300 mg/kg	103	75.0	129
EP071: C15 - C28 Fraction		100	mg/kg	<100	450 mg/kg	105	77.0	131
EP071: C29 - C36 Fraction		100	mg/kg	<100	300 mg/kg	107	71.0	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 I	Fractions (QCL	ot: 6507805)						
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	78.8	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 I	Fractions (QCL	ot: 6507817)						
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	93.9	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 I	Fractions (QCL	ot: 6508016)				,		
EP071: >C10 - C16 Fraction		50	mg/kg	<50	375 mg/kg	104	77.0	125
EP071: >C16 - C34 Fraction		100	mg/kg	<100	525 mg/kg	105	74.0	138
EP071: >C34 - C40 Fraction		100	mg/kg	<100	225 mg/kg	106	63.0	131
EP080: BTEXN (QCLot: 6507805)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	84.8	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	89.4	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	103	77.4	121
EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	106	78.2	121
. ,	106-42-3							
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	105	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	91.9	78.8	122
EP080: BTEXN (QCLot: 6507817)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	98.6	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	96.1	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	102	77.4	121
EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	109	78.2	121
	106-42-3							
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	100	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	91.2	78.8	122
ub-Matrix: WATER				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 6514059)								
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	105	82.0	114
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	97.2	84.0	112

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Client : EP RISK MANAGEMENT



Sub-Matrix: WATER				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 6514059)	The state of the s							
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	95.4	86.0	116
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	102	83.0	118
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	98.2	85.0	115
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	103	84.0	116
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	116	79.0	117
EG035T: Total Recoverable Mercury by FIMS (QCL	ot: 6514071)							
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	101	77.0	111
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons	(QCLot: 6507971)							
EP075(SIM): Naphthalene	91-20-3	1	μg/L	<1.0	5 μg/L	82.4	50.0	94.0
EP075(SIM): Acenaphthylene	208-96-8	1	μg/L	<1.0	5 μg/L	86.3	63.6	114
EP075(SIM): Acenaphthene	83-32-9	1	μg/L	<1.0	5 μg/L	90.8	62.2	113
EP075(SIM): Fluorene	86-73-7	1	μg/L	<1.0	5 μg/L	92.9	63.9	115
EP075(SIM): Phenanthrene	85-01-8	1	μg/L	<1.0	5 μg/L	77.6	62.6	116
EP075(SIM): Anthracene	120-12-7	1	μg/L	<1.0	5 μg/L	78.6	64.3	116
EP075(SIM): Fluoranthene	206-44-0	1	μg/L	<1.0	5 μg/L	87.8	63.6	118
EP075(SIM): Pyrene	129-00-0	1	μg/L	<1.0	5 μg/L	88.5	63.1	118
EP075(SIM): Benz(a)anthracene	56-55-3	1	μg/L	<1.0	5 μg/L	77.8	64.1	117
EP075(SIM): Chrysene	218-01-9	1	μg/L	<1.0	5 μg/L	81.3	62.5	116
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	μg/L	<1.0	5 μg/L	80.3	61.7	119
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	μg/L	<1.0	5 μg/L	77.9	63.0	115
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	μg/L	<0.5	5 μg/L	77.7	63.3	117
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	μg/L	<1.0	5 μg/L	80.0	59.9	118
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	μg/L	<1.0	5 μg/L	81.1	61.2	117
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	μg/L	<1.0	5 μg/L	78.3	59.1	118
EP080/071: Total Petroleum Hydrocarbons (QCLot:	6507972)	1						
EP071: C10 - C14 Fraction		50	μg/L	<50	400 μg/L	74.6	53.7	97.0
EP071: C15 - C28 Fraction		100	μg/L	<100	600 μg/L	96.2	63.3	107
EP071: C29 - C36 Fraction		50	μg/L	<50	400 μg/L	98.3	58.3	120
EP080/071: Total Petroleum Hydrocarbons (QCLot:	6510355)							
EP080: C6 - C9 Fraction		20	μg/L	<20	260 μg/L	92.7	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPN	/ 2013 Fractions (QCLo	ot: 6507972)						
EP071: >C10 - C16 Fraction		100	μg/L	<100	500 μg/L	80.0	53.9	95.5
EP071: >C16 - C34 Fraction		100	μg/L	<100	700 μg/L	96.6	57.8	110

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Client : EP RISK MANAGEMENT

Project : EP3269



Sub-Matrix: WATER				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	2013 Fractions (QC	Lot: 6507972) - co	ontinued					
EP071: >C34 - C40 Fraction		100	μg/L	<100	300 μg/L	84.4	50.5	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2	013 Fractions (QC	Lot: 6510355)						
EP080: C6 - C10 Fraction	C6_C10	20	μg/L	<20	310 µg/L	92.4	75.0	127
EP080: BTEXN (QCLot: 6510355)								
EP080: Benzene	71-43-2	1	μg/L	<1	10 μg/L	105	68.3	119
EP080: Toluene	108-88-3	2	μg/L	<2	10 μg/L	104	73.5	120
EP080: Ethylbenzene	100-41-4	2	μg/L	<2	10 μg/L	105	73.8	122
EP080: meta- & para-Xylene	108-38-3	2	μg/L	<2	10 μg/L	115	73.0	122
	106-42-3							
EP080: ortho-Xylene	95-47-6	2	μg/L	<2	10 μg/L	115	76.4	123
EP080: Naphthalene	91-20-3	5	μg/L	<5	10 μg/L	122	75.5	124

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Ma	atrix Spike (MS) Report	t	
				Spike	SpikeRecovery(%)	Acceptable l	imits (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: T	otal Metals by ICP-AES (QCLot: 6511441)						
ES2509409-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	99.5	70.0	130
		EG005T: Cadmium	7440-43-9	12.5 mg/kg	100	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	99.2	68.0	132
		EG005T: Copper	7440-50-8	50 mg/kg	106	70.0	130
		EG005T: Lead	7439-92-1	50 mg/kg	78.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	99.9	70.0	130
		EG005T: Zinc	7440-66-6	50 mg/kg	91.1	66.0	133
EG005(ED093)T: T	otal Metals by ICP-AES (QCLot: 6511444)						
ES2510317-026	TP07_0.1	EG005T: Arsenic	7440-38-2	50 mg/kg	83.9	70.0	130
		EG005T: Cadmium	7440-43-9	12.5 mg/kg	91.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	89.6	68.0	132
		EG005T: Copper	7440-50-8	50 mg/kg	95.7	70.0	130
		EG005T: Lead	7439-92-1	50 mg/kg	93.4	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	86.9	70.0	130
		EG005T: Zinc	7440-66-6	50 mg/kg	90.8	66.0	133
EG035T: Total Re	coverable Mercury by FIMS (QCLot: 6511443)						
ES2509409-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	94.1	70.0	130

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Client : EP RISK MANAGEMENT



ub-Matrix: SOIL				M	atrix Spike (MS) Repor	<u> </u>	
				Spike	SpikeRecovery(%)	Acceptable	Limits (%)
aboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
G035T: Total Re	coverable Mercury by FIMS (QCLot: 65114	45)					
ES2510317-026	TP07_0.1	EG035T: Mercury	7439-97-6	5 mg/kg	91.2	70.0	130
P004: Organic Ma	atter (QCLot: 6507490)						
S2510317-058	NEPM 0.1	EP004: Organic Matter		0.9 %	101	70.0	130
	ME: M_0.1	EP004: Organic Matter		0.52 %	102	70.0	130
D066: Bolychloria	nated Biphenyls (PCB) (QCLot: 6508019)	El 00 II. Total organic outbon		0.02			
S2510317-001	TP01 0.1	ED000 Tatal Balanthariants divisions to		1 ma/ka	103	70.0	130
	_	EP066: Total Polychlorinated biphenyls		1 mg/kg	103	70.0	130
	nlorine Pesticides (OC) (QCLot: 6508018)						
ES2510317-001	TP01_0.1	EP068: gamma-BHC - (Lindane)	58-89-9	0.5 mg/kg	76.3	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	91.2	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	97.4	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	103	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	112	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	71.0	70.0	130
P068B: Organopl	nosphorus Pesticides (OP) (QCLot: 65080°	18)					
S2510317-001	TP01_0.1	EP068: Diazinon	333-41-5	0.5 mg/kg	88.0	70.0	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	94.4	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	97.2	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	101	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.3	70.0	130
P075(SIM)B: Poly	nuclear Aromatic Hydrocarbons (QCLot: 0	6508017)					
S2510317-001	TP01 0.1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	88.6	70.0	130
	_	EP075(SIM): Pyrene	129-00-0	10 mg/kg	101	70.0	130
P080/071: Total P	etroleum Hydrocarbons (QCLot: 6507805)						
S2510317-005	TP02 0.1			32.5 mg/kg	80.4	60.4	142
	_	EP080: C6 - C9 Fraction		32.5 mg/kg	80.4	00.4	142
	etroleum Hydrocarbons (QCLot: 6507817)						
S2510515-001	Anonymous	EP080: C6 - C9 Fraction		32.5 mg/kg	76.7	60.4	142
P080/071: Total P	etroleum Hydrocarbons (QCLot: 6508016)						
S2510317-001	TP01_0.1	EP071: C10 - C14 Fraction		480 mg/kg	89.0	73.0	137
		EP071: C15 - C28 Fraction		3100 mg/kg	72.5	53.0	131
		EP071: C29 - C36 Fraction		2060 mg/kg	75.0	52.0	132
P080/071: Total R	Recoverable Hydrocarbons - NEPM 2013 Fr	actions (QCLot: 6507805)					
S2510317-005	TP02 0.1	EP080: C6 - C10 Fraction	C6 C10	37.5 mg/kg	72.2	61.1	142
	_			31.099			
	Recoverable Hydrocarbons - NEPM 2013 Fr		00.046	07.5	70.0	04.4	446
S2510515-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	73.8	61.1	142

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Client : EP RISK MANAGEMENT



ub-Matrix: SOIL				Ma	atrix Spike (MS) Report		
				Spike	SpikeRecovery(%)	Acceptable	Limits (%)
aboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
P080/071: Total R	ecoverable Hydrocarbons - NEPM 201	3 Fractions (QCLot: 6508016) - continued					
ES2510317-001	TP01_0.1	EP071: >C10 - C16 Fraction		860 mg/kg	75.0	73.0	137
		EP071: >C16 - C34 Fraction		4320 mg/kg	73.7	53.0	131
		EP071: >C34 - C40 Fraction		890 mg/kg	79.7	52.0	132
EP080: BTEXN (QC	CLot: 6507805)						
ES2510317-005	TP02_0.1	EP080: Benzene	71-43-2	2.5 mg/kg	94.0	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	113	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	84.1	67.4	123
		EP080: meta- & para-Xylene	108-38-3	2.5 mg/kg	84.0	66.4	121
			106-42-3				
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	84.7	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	89.7	61.1	115
P080: BTEXN (QC	CLot: 6507817)						
ES2510515-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	83.4	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	82.4	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	90.4	67.4	123
		EP080: meta- & para-Xylene	108-38-3	2.5 mg/kg	81.4	66.4	121
		·	106-42-3				
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	87.1	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	89.2	61.1	115
ub-Matrix: WATER				Ma	atrix Spike (MS) Report		
				Spike	SpikeRecovery(%)	Acceptable	Limits (%)
aboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
G020T: Total Meta	als by ICP-MS (QCLot: 6514059)						
ES2510238-014	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	102	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	98.3	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	96.6	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	101	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	96.1	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	104	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	103	70.0	130
G035T: Total Rec	coverable Mercury by FIMS (QCLot: 65						
ED2500581-002	Anonymous	EG035T: Mercury	7439-97-6	0.01 mg/L	92.6	70.0	130
	etroleum Hydrocarbons (QCLot: 6510			3 -			
ES2510434-001				325 42/	99.6	70.0	130
	Anonymous	EP080: C6 - C9 Fraction		325 μg/L	99.0	70.0	130
P080/071: Total R	ecoverable Hydrocarbons - NEPM 201	3 Fractions (QCLot: 6510355)					
ES2510434-001			C6 C10	375 μg/L	97.3	70.0	130

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Client : EP RISK MANAGEMENT



Sub-Matrix: WATER				Ma	trix Spike (MS) Repor	t	
				Spike	SpikeRecovery(%)	Acceptable l	Limits (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080: BTEXN (Q	CLot: 6510355)						
ES2510434-001	Anonymous	EP080: Benzene	71-43-2	25 μg/L	102	70.0	130
		EP080: Toluene	108-88-3	25 μg/L	109	70.0	130
		EP080: Ethylbenzene	100-41-4	25 μg/L	106	70.0	130
		EP080: meta- & para-Xylene	108-38-3	25 μg/L	112	70.0	130
			106-42-3				
		EP080: ortho-Xylene	95-47-6	25 μg/L	117	70.0	130
		EP080: Naphthalene	91-20-3	25 μg/L	117	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2510317** Page : 1 of 11

Client : EP RISK MANAGEMENT Laboratory : Environmental Division Sydney

 Contact
 : MR Mathew Cheshire
 Telephone
 : +61-2-8784 8555

 Project
 : EP3269
 Date Samples Received
 : 10-Apr-2025

 Site
 : --- Issue Date
 : 17-Apr-2025

Sampler : MC No. of samples received : 59 Order number : EP3269 No. of samples analysed : 18

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

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

Summary of Outliers

Outliers: Quality Control Samples

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

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

Quality Control Sample Frequency Outliers exist - please see following pages for full details.

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Client : EP RISK MANAGEMENT

Project : EP3269

Outliers: Analysis Holding Time Compliance

Matrix: SOIL

Wathir Gold						
Method	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EA001: pH in soil using 0.01M CaCl extract						
Soil Glass Jar - Unpreserved						
NEPM_0.1	17-Apr-2025	15-Apr-2025	2			

Outliers: Frequency of Quality Control Samples

Matrix: WATER

Quality Control Sample Type		Count		Rat	e (%)	Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	17	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	17	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

Evaluation: **x** = Holding time breach ; ✓ = Within holding time.

					· · · · · · · · · · · · · · · · · · ·	,	g time
Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA001: pH in soil using 0.01M CaCl extract							
Soil Glass Jar - Unpreserved (EA001) NEPM_0.1	08-Apr-2025	17-Apr-2025	15-Apr-2025	<u>se</u>	17-Apr-2025	17-Apr-2025	√
EA002: pH 1:5 (Soils)							
Soil Glass Jar - Unpreserved (EA002) NEPM_0.1	08-Apr-2025	15-Apr-2025	15-Apr-2025	1	15-Apr-2025	15-Apr-2025	✓
EA010: Conductivity (1:5)							
Soil Glass Jar - Unpreserved (EA010) NEPM_0.1	08-Apr-2025	15-Apr-2025	15-Apr-2025	1	15-Apr-2025	13-May-2025	√

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Matrix: SOIL					Evaluation	: x = Holding time	breach ; ✓ = Withi	n holding time.
Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
TP11_0.1		08-Apr-2025				14-Apr-2025	22-Apr-2025	✓
Soil Glass Jar - Unpreserved (EA055)	TD00 0.4	00 Ame 2025				15-Apr-2025	22-Apr-2025	
TP01_0.1,	TP02_0.1,	08-Apr-2025				15-Apr-2025	22-Apr-2025	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1, TP09_0.1,	TP08_0.1, TP10_0.1,							
TP12_0.1,	QA01,							
NEPM_0.1	QAUI,							
EA150: Soil Classification based on Particle Size								
Snap Lock Bag (EA150H)		l l						
NEPM_0.1		08-Apr-2025				17-Apr-2025	05-Oct-2025	✓
EA152: Soil Particle Density								
Snap Lock Bag (EA152)								
NEPM_0.1		08-Apr-2025				17-Apr-2025	05-Oct-2025	✓
ED006: Exchangeable Cations on Alkaline Soils								
Soil Glass Jar - Unpreserved (ED006)		00.40005	47.40005	00 May 2005	,	47.40005	00 May 2025	,
NEPM_0.1		08-Apr-2025	17-Apr-2025	06-May-2025	✓	17-Apr-2025	06-May-2025	✓
EG005(ED093)T: Total Metals by ICP-AES		<u>'</u>	<u> </u>	l I		<u> </u>	ı	
Soil Glass Jar - Unpreserved (EG005T) TP01_0.1,	TP02_0.1,	08-Apr-2025	15-Apr-2025	05-Oct-2025	1	16-Apr-2025	05-Oct-2025	
TP01_0.1,	TP02_0.1, TP04_0.1,	00-Apr-2023	10-Apr-2023	03-001-2023	•	10-Apr-2023	03-061-2023	✓
TP05_0.1,	TP04_0.1, TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09 0.1,	TP10 0.1,							
TP11_0.1,	TP12_0.1,							
QA01.	NEPM 0.1							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
TP01_0.1,	TP02_0.1,	08-Apr-2025	15-Apr-2025	06-May-2025	✓	17-Apr-2025	06-May-2025	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01								
EP004: Organic Matter								
Soil Glass Jar - Unpreserved (EP004)								
NEPM_0.1		08-Apr-2025	16-Apr-2025	06-May-2025	✓	16-Apr-2025	06-May-2025	✓

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. 1.0200								
Matrix: SOIL					Evaluation	: × = Holding time	breach ; ✓ = Withi	n holding time
Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP066: Polychlorinated Biphenyls (PC	В)							
Soil Glass Jar - Unpreserved (EP066)								
TP01_0.1,	TP02_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	15-Apr-2025	24-May-2025	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01								
EP068A: Organochlorine Pesticides (O	OC)							
Soil Glass Jar - Unpreserved (EP068)	,							
TP01_0.1,	TP02_0.1	08-Apr-2025	14-Apr-2025	22-Apr-2025	1	15-Apr-2025	24-May-2025	✓
Soil Glass Jar - Unpreserved (EP068)								
TP03_0.1,	TP04_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	16-Apr-2025	24-May-2025	✓
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01								
EP068B: Organophosphorus Pesticide	es (OP)							
Soil Glass Jar - Unpreserved (EP068)								
TP01_0.1,	TP02_0.1	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	15-Apr-2025	24-May-2025	✓
Soil Glass Jar - Unpreserved (EP068)								
TP03_0.1,	TP04_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	16-Apr-2025	24-May-2025	✓
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01	_							
EP075(SIM)B: Polynuclear Aromatic Hy	ydrocarbons							
Soil Glass Jar - Unpreserved (EP075(S	IM))							
TP01_0.1,	TP02_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	1	15-Apr-2025	24-May-2025	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01	<u> </u>							

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Matrix: SOIL					Evaluation	: × = Holding time	e breach ; ✓ = Withi	n holding time
Method		Sample Date	E	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydroca	arbons							
Soil Glass Jar - Unpreserved (EP080)							
TB01		04-Apr-2025	14-Apr-2025	18-Apr-2025	✓	15-Apr-2025	18-Apr-2025	✓
Soil Glass Jar - Unpreserved (EP080								
TP01_0.1,	TP02_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	15-Apr-2025	22-Apr-2025	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01								
Soil Glass Jar - Unpreserved (EP071)							
TP04_0.1,	TP05_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	✓	16-Apr-2025	24-May-2025	✓
TP06 0.1,	TP07_0.1,							·
TP08_0.1,	TP09_0.1,							
TP10_0.1,	TP11_0.1,							
TP12 0.1,	QA01							
EP080/071: Total Recoverable Hydro								
Soil Glass Jar - Unpreserved (EP080								
TB01	,	04-Apr-2025	14-Apr-2025	18-Apr-2025	1	15-Apr-2025	18-Apr-2025	✓
Soil Glass Jar - Unpreserved (EP080)							·
TP01_0.1,	TP02_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025	1	15-Apr-2025	22-Apr-2025	✓
TP03 0.1,	TP04 0.1,							·
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09 0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01	11 12_0.1,							
Soil Glass Jar - Unpreserved (EP071	1							
TP04_0.1,	TP05_0.1,	08-Apr-2025	14-Apr-2025	22-Apr-2025		16-Apr-2025	24-May-2025	✓
TP06_0.1,	TP07_0.1,				_			•
TP08_0.1,	TP09_0.1,							
TP10_0.1,	TP09_0.1, TP11_0.1,							
	QA01							
TP12_0.1,	QAU1							

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RQ01 EP080: BTEXN

RQ01

Amber VOC Vial - Sulfuric Acid (EP080)



Matrix: SOIL			_		Evaluation	: × = Holding time	breach ; ✓ = Withi	n holding tim
Method		Sample Date	E	xtraction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP0)								
TB01,	Trip Spike,	04-Apr-2025	14-Apr-2025	18-Apr-2025	✓	15-Apr-2025	18-Apr-2025	✓
TSC								
Soil Glass Jar - Unpreserved (EP0)	•	08-Apr-2025	14-Apr-2025	22-Apr-2025		15-Apr-2025	22-Apr-2025	
TP01_0.1,	TP02_0.1,	08-Apr-2025	14-Apr-2025	22-Api-2023	✓	15-Apr-2025	22-Api-2023	✓
TP03_0.1,	TP04_0.1,							
TP05_0.1,	TP06_0.1,							
TP07_0.1,	TP08_0.1,							
TP09_0.1,	TP10_0.1,							
TP11_0.1,	TP12_0.1,							
QA01								
Matrix: WATER					Evaluation	: × = Holding time	breach ; ✓ = Withi	n holding tir
Method		Sample Date	E	xtraction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS	11 15 11 11 1							
Clear Plastic Bottle - Nitric Acid; U	nfiltered (EG020A-T)							
RQ01		08-Apr-2025	16-Apr-2025	05-Oct-2025	1	16-Apr-2025	05-Oct-2025	✓
EG035T: Total Recoverable Mercu	ıry by FIMS							
Clear Plastic Bottle - Nitric Acid; U	nfiltered (EG035T)							
RQ01		08-Apr-2025				17-Apr-2025	06-May-2025	✓
EP075(SIM)B: Polynuclear Aromat	ic Hydrocarbons							
Amber Glass Bottle - Unpreserved	(EP075(SIM))							
RQ01		08-Apr-2025	14-Apr-2025	15-Apr-2025	✓	15-Apr-2025	24-May-2025	✓
EP080/071: Total Petroleum Hydro	carbons							
Amber Glass Bottle - Unpreserved	(EP071)							
RQ01		08-Apr-2025	14-Apr-2025	15-Apr-2025	✓	17-Apr-2025	24-May-2025	✓
Amber VOC Vial - Sulfuric Acid (El	2080)	00.4	45.40055	00. 4 000.7		45.4	00 4 0007	
RQ01		08-Apr-2025	15-Apr-2025	22-Apr-2025	✓	15-Apr-2025	22-Apr-2025	✓
EP080/071: Total Recoverable Hyd								
Amber Glass Bottle - Unpreserved	(EP071)			45.4 005-			04.14 0005	
RQ01		08-Apr-2025	14-Apr-2025	15-Apr-2025	✓	17-Apr-2025	24-May-2025	✓
Amber VOC Vial - Sulfuric Acid (EF	2080)	00 4 0005	45 4 - 2005	22 Apr 2025		45 Amr 2005	22 Apr 2025	
RQ01		08-Apr-2025	15-Apr-2025	22-Apr-2025	✓	15-Apr-2025	22-Apr-2025	✓

08-Apr-2025

15-Apr-2025

22-Apr-2025

15-Apr-2025

22-Apr-2025

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Quality Control Parameter Frequency Compliance

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

Matrix: SOII

Evaluation: x = Quality Control frequency not within specification; y = Quality Control frequency within specification

Matrix: SOIL				Evaluatio		ntrol frequency i	not within specification ; ✓ = Quality Control frequency within specification
Quality Control Sample Type			ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Electrical Conductivity (1:5)	EA010	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	6	50	12.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	36	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)				l l			
Electrical Conductivity (1:5)	EA010	1	13	7.69	5.00	1	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Electrical Conductivity (1:5)	EA010	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	4	25.00	5.00	√	NEPM 2013 B3 & ALS QC Standard
Organic Matter	EP004	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

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Client EP RISK MANAGEMENT

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Total Mercury by FIMS

TRH Volatiles/BTEX

Total Metals by ICP-MS - Suite A

TRH - Semivolatile Fraction



Matrix: SOIL				Evaluatio	n: 🗴 = Quality Co	ontrol frequency i	not within specification ; ✓ = Quality Control frequency within specification
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	1
Matrix Spikes (MS)							
Organic Matter	EP004	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	40	5.00	5.00	-/	NEPM 2013 B3 & ALS QC Standard

TRH Volatiles/BTEX	EP080	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix: WATER				Evaluatio	n: × = Quality Co	ontrol frequency r	not within specification ; ✓ = Quality Control frequency within specification
Quality Control Sample Type		С	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	17	0.00	10.00	se	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	3	13	23.08	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	20	0.00	10.00	3£	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	17	0.00	5.00	se.	NEPM 2013 B3 & ALS QC Standard

5.00

7.69

0.00

5.00

5.00

5.00

5.00

5.00

✓

✓

x

NEPM 2013 B3 & ALS QC Standard

EG035T

EP071

EP080

EG020A-T

1

1

0

1

20

13

20

20

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Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl2 extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl2 and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
pH (1:5)	EA002	SOIL	In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on soil samples after a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).
Electrical Conductivity (1:5)	EA010	SOIL	In house: Referenced to Rayment and Lyons 3A1 and APHA 2510. Conductivity is determined on soil samples using a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Particle Size Analysis by Hydrometer	EA150H	SOIL	Particle Size Analysis by Hydrometer according to AS1289.3.6.3
Soil Particle Density	EA152	SOIL	Soil Particle Density by AS 1289.3.5.1: Methods of testing soils for engineering purposes - Soil classification tests - Determination of the soil particle density of a soil - Standard method
Exchangeable Cations on Alkaline Soils	* ED006	SOIL	In house: Referenced to Soil Survey Test Method C5. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with alcoholic ammonium chloride at pH 8.5. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil.
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Organic Matter	EP004	SOIL	In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)



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Client : EP RISK MANAGEMENT



Analytical Methods	Method	Matrix	Method Descriptions
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Preparation Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl2 extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Exchangeable Cations Preparation Method (Alkaline Soils)	* ED006PR	SOIL	In house: Referenced to Rayment and Lyons method 15C1.
Exchangeable Cations Preparation Method	ED007PR	SOIL	In house: Referenced to Rayment & Lyons method 15A1. A 1M NH4Cl extraction by end over end tumbling at a ratio of 1:20. There is no pretreatment for soluble salts. Extracts can be run by ICP for cations.
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Organic Matter	EP004-PR	SOIL	In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.

Page : 11 of 11 Work Order : ES2510317

Client : EP RISK MANAGEMENT



Preparation Methods	Method	Matrix	Method Descriptions
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1
			DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the
			desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure
			used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant
			with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel
			and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated
			and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes
			sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

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EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

ABN: 91 05 0159 898 NZBN: 9429046024954

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254

Geelong Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403

19/8 Lewalan Street 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217

Mitchell ACT 2911 NATA# 1261 Site# 25466

Unit 1.2 Dacre Street Murarrie QLD 4172 +61 2 6113 8091 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780

Newcastle 1/21 Smallwood Place 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079

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Christchurch Rolleston Christchurch 7675 IANZ# 1290

Tauranga 1277 Cameron Road Gate Pa Tauranga 3112 +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name: Contact name:

EP Risk Management (Newcastle)

Project name: Project ID: Turnaround time: Date/Time received **Eurofins reference**

Luke Kerry Not provided EP3269

5 Day Apr 14, 2025 1:18 PM

1210014

Sample Information

A detailed list of analytes logged into our LIMS, is included in the attached summary table.

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

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:

Bonnie Pu on phone : or by email: Bonnie.Pu@eurofinsanz.com

Results will be delivered electronically via email to Luke Kerry - luke.kerry@eprisk.com.au.

Note: A copy of these results will also be delivered to the general EP Risk Management (Newcastle) email address.





email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Site# 1254

Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261

Site# 25403

Sydney Canberra 179 Magowar Road Girraween Mitchell NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217

Brisbane Unit 1.2 Dacre Street 1/21 Smallwood Place Murarrie ACT 2911 QLD 4172 +61 2 6113 8091 +61 7 3902 4600 NATA# 1261 NATA# 1261 Site# 25466 Site# 20794 & 2780

1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079

Newcastle

Perth 46-48 Banksia Road Welshpool WA 6106

NATA# 2377

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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Auckland Auckland (Focus) 35 O'Rorke Road Unit C1/4 Pacific Rise Penrose Mount Wellington Auckland 1061 Auckland 1061 +64 9 526 4551 +64 9 525 0568 IANZ# 1327 IANZ# 1308

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80 Mount Street,

North Sydney NSW 2060

Project Name: Project ID:

EP3269

Order No.:

Report #: 1210014 Phone: 02 99225021

Fax:

Received: Apr 14, 2025 1:18 PM Due: Apr 23, 2025 Priority: Contact Name: 5 Day Luke Kerry

Eurofins Analytical Services Manager: Bonnie Pu

		Sa	mple Detail			Eurofins Suite B15	Moisture Set	Eurofins Suite B7
Sydr	ney Laboratory	- NATA # 1261	Site # 18217	•		Χ	Х	Χ
Exte	rnal Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	QA02	Apr 08, 2025		Soil	S25-Ap0043907	Х	Х	Х
Test	Counts					1	1	1



EP Risk Management (NSW) 80 Mount Street, North Sydney NSW 2060





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: Luke Kerry

Report 1210014-S

Project name

Project ID EP3269
Received Date Apr 14, 2025

Client Sample ID			QA02
Sample Matrix			Soil
·			S25-
Eurofins Sample No.			Ap0043907
Date Sampled			Apr 08, 2025
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)N04	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)*N01	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
втех			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions	_	
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
Polycyclic Aromatic Hydrocarbons	0.0	19,9	1 0.0
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5



Client Sample ID			QA02
Sample Matrix			Soil
Eurofins Sample No.			S25- Ap0043907
Date Sampled			Apr 08, 2025
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons		•	
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	118
p-Terphenyl-d14 (surr.)	1	%	111
Organochlorine Pesticides	'		
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-HCH	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-HCH	0.05	mg/kg	< 0.05
d-HCH	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
q-HCH (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.03	mg/kg	< 0.03
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	98
Organophosphorus Pesticides		, ,,	
Azinphos-methyl	0.2	mg/kg	< 0.2
Bolstar	0.2	mg/kg	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2
Coumaphos	2	mg/kg	< 2
Demeton-S	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2



Client Sample ID			QA02
Sample Matrix			Soil
Eurofins Sample No.			S25- Ap0043907
Date Sampled			Apr 08, 2025
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Dimethoate	0.2	mg/kg	< 0.2
Disulfoton	0.2	mg/kg	< 0.2
EPN	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Malathion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Monocrotophos	2	mg/kg	< 2
Naled	0.2	mg/kg	< 0.2
Omethoate	2	mg/kg	< 2
Phorate	0.2	mg/kg	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Terbufos	0.2	mg/kg	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	INT
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1
Total PCB*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	INT
Tetrachloro-m-xylene (surr.)	1	%	98
Heavy Metals			
Arsenic	2	mg/kg	81
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	19
Copper	5	mg/kg	34
Lead	5	mg/kg	14
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	18
Zinc	5	mg/kg	38
Sample Properties			
% Moisture	1	%	13



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	Apr 16, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 16, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Apr 16, 2025	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Apr 16, 2025	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Apr 15, 2025	14 Days
Made at LTM OFN 7000 Maintenant			



email: EnviroSales@eurofinsanz.com

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Moisture

Set

Eurofins Suite B7

Eurofins Suite B15

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Χ

LAB ID

S25-Ap0043907

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Address:

web: www.eurofins.com.au

Company Name: EP Risk Management (Newcastle)

Sample Detail

Sampling

Time

Matrix

Soil

80 Mount Street, North Sydney

NSW 2060

Project Name: Project ID:

External Laboratory

QA02

Test Counts

No

Sample ID

EP3269

Sydney Laboratory - NATA # 1261 Site # 18217

Sample Date

Apr 08, 2025

Order No.:

Report #: Phone: Fax:

1210014 02 99225021 Received: Apr 14, 2025 1:18 PM Apr 23, 2025 Due: Priority: 5 Dav Contact Name: Luke Kerry

Eurofins Analytical Services Manager: Bonnie Pu



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.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences
- 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

Colour: Pt-Co Units (CU) CFU: Colony Forming Unit

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

The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria Surr - Surrogate

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. TRTO

TCI P 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

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Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank					
Total Recoverable Hydrocarbons					
TRH C6-C9	mg/kg	< 20	20	Pass	
TRH C10-C14	mg/kg	< 20	20	Pass	
TRH C15-C28	mg/kg	< 50	50	Pass	
TRH C29-C36	mg/kg	< 50	50	Pass	
TRH C6-C10	mg/kg	< 20	20	Pass	
TRH >C10-C16	mg/kg	< 50	50	Pass	
TRH >C16-C34	mg/kg	< 100	100	Pass	
TRH >C34-C40	mg/kg	< 100	100	Pass	
Method Blank					
BTEX					
Benzene	mg/kg	< 0.1	0.1	Pass	
Toluene	mg/kg	< 0.1	0.1	Pass	
Ethylbenzene	mg/kg	< 0.1	0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2	0.2	Pass	
o-Xylene	mg/kg	< 0.1	0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3	0.3	Pass	
Method Blank	1 5 5				
Total Recoverable Hydrocarbons - 2013 NEPM Fra	actions				
Naphthalene	mg/kg	< 0.5	0.5	Pass	
Method Blank	1 3 3				
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	1 3 3				
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	



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
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	1 0 0				
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		< 0.2	0.2	Pass	
	mg/kg				
Diazinon	mg/kg	< 0.2	0.2	Pass	
Dichlorvos Discrete a sta	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	
1 11 12 12 12 12 12 12 12 12 12 12 12 12	1119/119	1 5		. 400	1



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	mg/kg	< 0.1	0.1	Pass	
Total PCB*	mg/kg	< 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	
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					
TRH C6-C9	%	99	70-130	Pass	
TRH C10-C14	%	80	70-130	Pass	
TRH C6-C10	%	100	70-130	Pass	
TRH >C10-C16	%	78	70-130	Pass	
LCS - % Recovery					
BTEX					
Benzene	%	92	70-130	Pass	
Toluene	%	90	70-130	Pass	
Ethylbenzene	%	95	70-130	Pass	
m&p-Xylenes	%	94	70-130	Pass	
o-Xylene	%	93	70-130	Pass	
Xylenes - Total*	%	94	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 2013 NEPM Frac	tions				
Naphthalene	%	104	70-130	Pass	
LCS - % Recovery					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	113	70-130	Pass	
Acenaphthylene	%	121	70-130	Pass	
Anthracene	%	118	70-130	Pass	
Benz(a)anthracene	%	86	70-130	Pass	
Benzo(a)pyrene	%	117	70-130	Pass	
Benzo(b&j)fluoranthene	%	80	70-130	Pass	
Benzo(g.h.i)perylene	%	93	70-130	Pass	
Chrysene	%	128	70-130	Pass	
Dibenz(a.h)anthracene	%	105	70-130	Pass	
Fluoranthene	%	99	70-130	Pass	
Fluorene	%	125	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	110	70-130	Pass	
Naphthalene	%	104	70-130	Pass	
Phenanthrene	%	109	70-130	Pass	
Pyrene	%	98	70-130	Pass	
LCS - % Recovery					
Organochlorine Pesticides					
Chlordanes - Total	%	126	70-130	Pass	
4.4'-DDD	%	120	70-130	Pass	
4.4'-DDE	%	128	70-130	Pass	
4.4'-DDT	%	126	70-130	Pass	
a-HCH	%	114	70-130	Pass	
411011				. 0.00	



Test			Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
b-HCH			%	102	70-130	Pass	
d-HCH			%	107	70-130	Pass	
Dieldrin			%	112	70-130	Pass	
Endosulfan I			%	109	70-130	Pass	
Endosulfan II			%	112	70-130	Pass	
Endosulfan sulphate			%	117	70-130	Pass	
Endrin			%	112	70-130	Pass	
Endrin aldehyde			%	109	70-130	Pass	
Endrin ketone			%	125	70-130	Pass	
Heptachlor			%	99	70-130	Pass	
Heptachlor epoxide			%	108	70-130	Pass	
Hexachlorobenzene			%	128	70-130	Pass	
Methoxychlor			%	119	70-130	Pass	
LCS - % Recovery			,,,				
Organophosphorus Pesticides							
Diazinon			%	104	70-130	Pass	
Dimethoate			%	97	70-130	Pass	
Ethion			%	119	70-130	Pass	
Fenitrothion Methyl parethion			%	125	70-130	Pass Pass	
Methyl parathion			%	118	70-130		
Mevinphos			%	100	70-130	Pass	
LCS - % Recovery				<u> </u>			
Polychlorinated Biphenyls						_	
Aroclor-1016			%	113	70-130	Pass	
Aroclor-1260			%	120	70-130	Pass	
LCS - % Recovery				T			
Heavy Metals							
Arsenic			%	107	80-120	Pass	
Cadmium			%	104	80-120	Pass	
Chromium			%	106	80-120	Pass	
Copper			%	107	80-120	Pass	
Lead			%	106	80-120	Pass	
Mercury			%	100	80-120	Pass	
Nickel			%	107	80-120	Pass	
Zinc			%	105	80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TDU CC CO					70 400	Pass	
TRH C6-C9	S25-Ap0032018	NCP	%	94	70-130	1 433	
TRH C6-C9 TRH C10-C14	S25-Ap0032018 S25-Ap0035681	NCP	%	94 103	70-130	Pass	
	· ·	1					
TRH C10-C14	S25-Ap0035681	NCP	%	103	70-130	Pass	
TRH C10-C14 TRH C6-C10	S25-Ap0035681 S25-Ap0032018	NCP NCP	% %	103 93	70-130 70-130	Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16	S25-Ap0035681 S25-Ap0032018	NCP NCP	% %	103 93	70-130 70-130	Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery	S25-Ap0035681 S25-Ap0032018	NCP NCP	% %	103 93 101	70-130 70-130	Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX	S25-Ap0035681 S25-Ap0032018 S25-Ap0035681	NCP NCP NCP	% % %	103 93 101 Result 1	70-130 70-130 70-130	Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene	S25-Ap0035681 S25-Ap0032018 S25-Ap0035681 S25-Ap0044898	NCP NCP NCP	% % %	103 93 101 Result 1	70-130 70-130 70-130 70-130	Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP	% % % %	103 93 101 Result 1 77 76	70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene m&p-Xylenes	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP NCP	% % % % % %	103 93 101 Result 1 77 76 81 78	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene m&p-Xylenes o-Xylene	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP NCP NCP	% % % % % % %	103 93 101 Result 1 77 76 81 78	70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene m&p-Xylenes o-Xylene Xylenes - Total*	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP NCP	% % % % % %	103 93 101 Result 1 77 76 81 78	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene m&p-Xylenes o-Xylene Xylenes - Total* Spike - % Recovery	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP NCP NCP	% % % % % % %	103 93 101 Result 1 77 76 81 78 78	70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass Pass Pass	
TRH C10-C14 TRH C6-C10 TRH >C10-C16 Spike - % Recovery BTEX Benzene Toluene Ethylbenzene m&p-Xylenes o-Xylene Xylenes - Total*	\$25-Ap0035681 \$25-Ap0032018 \$25-Ap0035681 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898 \$25-Ap0044898	NCP NCP NCP NCP NCP NCP NCP NCP	% % % % % % %	103 93 101 Result 1 77 76 81 78	70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	Pass Pass Pass Pass Pass Pass Pass Pass	



Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons				Result 1			
Acenaphthene	S25-Ap0035664	NCP	%	113	70-130	Pass	
Acenaphthylene	S25-Ap0035664	NCP	%	125	70-130	Pass	
Anthracene	S25-Ap0035649	NCP	%	118	70-130	Pass	
Benz(a)anthracene	S25-Ap0035664	NCP	%	75	70-130	Pass	
Benzo(a)pyrene	S25-Ap0035649	NCP	%	116	70-130	Pass	
Benzo(b&j)fluoranthene	S25-Ap0035649	NCP	%	99	70-130	Pass	
Benzo(g.h.i)perylene	S25-Ap0035649	NCP	%	93	70-130	Pass	
Benzo(k)fluoranthene	S25-Ap0035649	NCP	%	126	70-130	Pass	
Chrysene	S25-Ap0035649	NCP	%	123	70-130	Pass	
Dibenz(a.h)anthracene	S25-Ap0035649	NCP	%	103	70-130	Pass	
Fluoranthene	S25-Ap0035664	NCP	%	95	70-130	Pass	
Fluorene	S25-Ap0035664	NCP	%	122	70-130	Pass	
Indeno(1.2.3-cd)pyrene	S25-Ap0035649	NCP	%	105	70-130	Pass	
Naphthalene	S25-Ap0035664	NCP	%	111	70-130	Pass	
Phenanthrene	S25-Ap0035664	NCP	%	77	70-130	Pass	
Pyrene	S25-Ap0035664	NCP	%	103	70-130	Pass	
Spike - % Recovery							
Organochlorine Pesticides				Result 1			
Chlordanes - Total	S25-Ap0035649	NCP	%	109	70-130	Pass	
4.4'-DDD	S25-Ap0035634	NCP	%	127	70-130	Pass	
4.4'-DDE	S25-Ap0035649	NCP	%	116	70-130	Pass	
4.4'-DDT	S25-Ap0035634	NCP	%	81	70-130	Pass	
a-HCH	S25-Ap0035649	NCP	%	102	70-130	Pass	
Aldrin	S25-Ap0035649	NCP	%	102	70-130	Pass	
b-HCH	S25-Ap0035649	NCP	%	89	70-130	Pass	
d-HCH	S25-Ap0035649	NCP	%	97	70-130	Pass	
Dieldrin	S25-Ap0035634	NCP	%	122	70-130	Pass	
Endosulfan I	S25-Ap0035649	NCP	%	106	70-130	Pass	
Endosulfan II	S25-Ap0035649	NCP	%	114	70-130	Pass	
Endosulfan sulphate	S25-Ap0035649	NCP	%	125	70-130	Pass	
Endrin	S25-Ap0032085	NCP	%	116	70-130	Pass	
Endrin aldehyde	S25-Ap0035649	NCP	%	96	70-130	Pass	
Endrin ketone	S25-Ap0032085	NCP	%	128	70-130	Pass	
g-HCH (Lindane)	S25-Ap0035649	NCP	%	109	70-130	Pass	
Heptachlor	S25-Ap0035634	NCP	%	98	70-130	Pass	
Heptachlor epoxide	S25-Ap0035649	NCP	%	129	70-130	Pass	
Hexachlorobenzene	S25-Ap0035649	NCP	%	102	70-130	Pass	
Methoxychlor	S25-Ap0035634	NCP	%	103	70-130	Pass	
Spike - % Recovery							
Organophosphorus Pesticides				Result 1			
Diazinon	S25-Ap0035649	NCP	%	104	70-130	Pass	
Dimethoate	S25-Ap0035649	NCP	%	70	70-130	Pass	
Ethion	S25-Ap0035634	NCP	%	73	70-130	Pass	
Mevinphos	S25-Ap0035649	NCP	%	101	70-130	Pass	
Spike - % Recovery	·						
Polychlorinated Biphenyls				Result 1			
Aroclor-1016	S25-Ap0035649	NCP	%	101	70-130	Pass	
Aroclor-1260	S25-Ap0035649	NCP	%	113	70-130	Pass	
Spike - % Recovery							
Heavy Metals				Result 1			
Arsenic	S25-Ap0042640	NCP	%	100	75-125	Pass	
Cadmium	S25-Ap0042640	NCP	%	100	75-125	Pass	
	•						
Chromium	S25-Ap0042640	NCP	%	98	75-125	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	S25-Ap0042640	NCP	%	95			75-125	Pass	
Lead	S25-Ap0042640	NCP	%	92			75-125	Pass	
Mercury	S25-Ap0042640	NCP	%	95			75-125	Pass	
Nickel	S25-Ap0042640	NCP	%	95			75-125	Pass	
Zinc	S25-Ap0043294	NCP	%	76			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate	<u> </u>								
Total Recoverable Hydrocarbor	ıs			Result 1	Result 2	RPD			
TRH C6-C9	S25-Ap0040857	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S25-Ap0032017	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Ap0032017	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Ap0032017	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	S25-Ap0040857	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S25-Ap0032017	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Ap0032017	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Ap0032017	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate	0207.0002017		9,9	1.00	1.00		3070		
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Ap0040857	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Ap0040857	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Ap0040857	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
•	S25-Ap0040857	NCP		< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Ap0040857	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	·		mg/kg						
Xylenes - Total*	S25-Ap0040857	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate Table 1 Duplicate	- 0040 NEDM F	•		Decil 4	D 11 0	DDD			
Total Recoverable Hydrocarbor				Result 1	Result 2	RPD	000/	D	
Naphthalene	S25-Ap0040857	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate Delicate				Docuted.	D 11 0	DDD			
Polycyclic Aromatic Hydrocarb		NOD	"	Result 1	Result 2	RPD	000/	_	
Acenaphthene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Ap0050590	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	



Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-HCH	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S25-Ap0035682	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R25-Ap0026104	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate	1120 /1002010+	1401	l mg/kg	<u> </u>	V 0.0		0070	1 455	
Organophosphorus Pesticides				Result 1	Result 2	RPD		T	
Azinphos-methyl	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S25-Ap0035682	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S25-Ap0035682	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S25-Ap0035682	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S25-Ap0035082	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S25-Ap0035082	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S25-Ap0035682	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
I CIDUIO2	323-AP0033682						1		
	SOE ANDOOFERS	NCD	ma/ka	1 -02	1 202	_1	300/	I Dooo !	
Tetrachlorvinphos Tokuthion	S25-Ap0035682 S25-Ap0035682	NCP NCP	mg/kg mg/kg	< 0.2 < 0.2	< 0.2 < 0.2	<1 <1	30% 30%	Pass Pass	



Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S25-Ap0035682	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	R25-Ap0036727	NCP	mg/kg	2.4	2.3	3.0	30%	Pass	
Cadmium	R25-Ap0036727	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R25-Ap0036727	NCP	mg/kg	47	43	9.0	30%	Pass	
Copper	R25-Ap0036727	NCP	mg/kg	32	30	7.0	30%	Pass	
Lead	R25-Ap0036727	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	R25-Ap0036727	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R25-Ap0036727	NCP	mg/kg	25	23	6.0	30%	Pass	•
Zinc	R25-Ap0036727	NCP	mg/kg	67	66	1.0	30%	Pass	•
Duplicate									•
Sample Properties				Result 1	Result 2	RPD			•
% Moisture	S25-Ap0043934	NCP	%	8.0	7.4	8.0	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

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).

N01

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.

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. N04

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 N07

Authorised by:

N02

Nileshni Goundar Analytical Services Manager Mickael Ros Senior Analyst-Metal Raymond Siu Senior Analyst-Volatile Roopesh Rangarajan Senior Analyst-Organic

Ryan Phillips 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 G UNEXPECTED FINDS PROTOCOL



Work Instruction_007

Unexpected Finds Protocol

1 Purpose

The purpose of this procedure is to communicate the protocol to be followed by the site personnel in the event of an unexpected find being uncovered during site excavation works. The protocol is based on the **8D Problem Solving** method for the analysis of an unplanned or unexpected event and to develop an appropriate planned response.

This approach promotes orderly-oriented and proven methods using facts rather than personal bias. This will ensure safety of workers and the environment on the project.

2 Scope

The 8D Problem Solving Process is a proven method for addressing concerns including those issues concerning: customer, regulator, report and/or system issues. The 8D approach applies to any problem or activity and assists in achieving effective communication exchange between customer, supplier and EP RISK Management Pty Ltd (EP RISK) that share a common objective.

3 References

- AS/NZS ISO 9001:2008, Quality Management Systems Requirements
- AS/NZS ISO 14001:2004, Environmental Management Systems Requirements
- Code of Practice for Excavation: NSW WorkCover
- OH&S Regulations 2011 REG 174ZF
- NSW WorkCover: Fact Sheet 3_1; Dangerous Goods Abandoning Disused Underground Tanks
- NSW WorkCover: Notification of disused underground/partially underground tanks
- NSW WorkCover: Notification of dangerous goods on premises guide
- NSW EPA: Environmental Action for Service Stations; Information Sheet No 6- Underground Storage Tanks
- Protection of the Environment Operations (Underground Petroleum Storage Systems)
 Regulation 2008
- AS 1940-2004: The storage and handling of flammable and combustible liquids.
- AS 4976-2008: The removal and disposal of underground petroleum storage tanks

4 Definitions

- All terminology shall be in accordance with AS/NZS ISO 9001:2008.
- Unexpected Find shall mean the unearthing of any contaminated land or groundwater, asbestos, pipework, old drums, tanks, pits, services, structures or unusual change in ground conditions.
- **8D** shall mean the eight disciplines that make up a proven structured problem solving method and technique.
- EP RISK EP Risk Management Pty Ltd
- **QS** Quality System(s)



5 Procedure

The flow chart included in the appendix, shall be displayed in prominent locations throughout the site and personnel shall be trained in the requirements of the Unexpected Finds Protocol during the site induction process and reinforced through tool box meetings at the start of works.

D1 – Immediate Containment Action & Verification

Upon discovery of an unexpected find, **stop work immediately** and inform the site manager. The site manager will instruct on any short term measures required to prevent any potential escalation of the problem (i.e. backfill excavation to make safe or the like).

The affected area will be closed off by the use of barrier tape and warning signs. Warning signs shall be erected and be specific to the suspected Hazards and shall comply with the Australian Standard 1319-1994 – Safety Signs for the Occupational Environment.

D2 – Form a Team

The site manager will inform EP RISK of the Unexpected Find and gather a team to identify the appropriate response to the event. The team must consist of a minimum of the Site Manager (or delegated officer), EP RISK technical staff member and additional stakeholders as required. EP RISK will assume the role of team leader, unless otherwise notified and will complete the 8D form (see attachments). The form numbering shall be as follows:

REPORT NUMBER-YEAR e.g. 001-2014; 002-2014.

The form number must be chosen sequentially, reported to the Site Manager and recorded in the Unexpected Finds Register.

D3 – Problem Description

EP RISK will define the problem unearthed by the Unexpected Find and the appropriate controls required to implement an appropriate response.

The location of the identified unexpected find/asbestos material or other will be surveyed and recorded.

Contamination/ Asbestos

EP RISK will send an Environmental Scientist/ Asbestos Assessor to inspect the area and confirm the presence of asbestos and to determine extent of remediation works to be undertaken. A report detailing this information will be compiled by EP RISK and provided to the Principal (or their representative) and the site manager.

Impacted Groundwater

EP RISK will send an Environmental Scientist to sample the water and record any visible oily sheen. The water sample will be analysed in a laboratory to determine if there are any contamination above the allowable discharge guidelines for the property. A water treatment methodology such as oily water separator or discharge as trade waste will be identified based on the contaminate load in the water body.

Old Pipe/ Utility

EP RISK will investigate the pipe to determine if it is an active service. If the pipe is disused, any liquids or residue within the pipe will be tested for presence of potential contaminates of concern. If it is a

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live service that was not identified by DBYG or potholing the utility provider will be will contacted to provide advice on possible relocation, removal and/or temporary protection.

Man Made Items -Drum, UST, containers, pit or other structures

EP RISK will send an Environmental Scientist to inspect the uncovered drum, UST, pit or structure. Photographic records will be taken of the items and any labelling that has remained intact on the drum, UST, pit or structure will be recorded and checked against published records of chemical and/or dangerous goods.

The integrity of the drums, UST, pit or structure will be assessed to allow the risk of collapse to be determined when removal works are commenced.

If possible, the lid/ covers will be carefully removed to allow investigation of any materials contained within the structure.

Samples of solid and/or liquid waste will be collected from the unexpected find to determine the volatility and toxicity of any substance enclosed within or surrounding the unexpected find.

Vapour monitoring may be required if extremely odorous or suspected toxic vapours are encountered.

Ground Conditions:

A sudden change in ground conditions such as sand, rubble, clay layers may indicate a buried service, buried waste in a containment cell, historical water course or geological feature. EP RISK will investigate any sudden change in ground conditions and obtain specialist geotechnical advice as appropriate.

D4 - Root Cause

EP RISK will define and verify the root cause of the unexpected find and identify potential sources.

Contamination/ Asbestos

Review data on previous land use, use of uncontrolled fill on the land, potential for illegal dumping at the property, industrial discharge and/or old asbestos buildings/ outbuildings.

Impacted Groundwater

Impacted Groundwater may indicate hydrocarbons in the soils or a source of contamination up stream of the event. EP RISK will review existing groundwater data and bores prior to undertaking any additional investigative work.

Old Pipe/ Utility

The pipe location will be cross referenced to Dial Before You Dig records, existing service location drawings, pot hole records and service locator searches to determine why the potential service was not identified prior to excavation commencing. If the service is inactive, information on the likely content of the pipe will be researched.

Man Made Items -Drum, UST, containers, pit or other structures

EP RISK will review any labelling or identification marks and attempt to trace the origins of any drums, UST, containers or the like discovered during excavation works.

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This information will be cross referenced to previous land use records to determine what process, if any would have required these items to be present on the property.

The possibility of uncontrolled importation of fill materials or illegal dumping of waste materials will be investigated.

Ground Conditions

EP RISK will review the records of any controlled fill placed on the site, the geotechnical profile of the property and historical records of land use for previous excavation events.

D5 - Planned Remediation Action to Overcome Un-Expected Find

EP RISK will provide recommendation on the actions and controls required to overcome the identified event and root cause. A Risk Assessment in consultation with the site manager and workers will be conducted prior to the implementation of the proposed actions.

Note: <u>If the Risk Assessment identifies that the system requires an update, alter the system and</u> communicate change to all staff.

Contamination/ Asbestos

EP RISK will test and characterise the soil for off-site disposal or beneficial reuse. A soil classification report will be issued to the Site Manager.

Soils contained within the area of the Unexpected Find that cannot remain within the property for beneficial reuse must be removed to a licenced waste facility by an experienced Contractor.

Material that is found to be impacted with Asbestos will be classified as "Special Waste containing Asbestos" and disposed at a Licensed Landfill by a licensed Contractor. In dry and windy conditions any exposed or stockpiled soils will be lightly wetted whilst awaiting disposal.

All work associated with asbestos in soil will be undertaken by a contractor holding a class AS-1 License. WorkCover must be notified 5 days in advance of any asbestos works;

As required, monitoring for airborne asbestos fibres is to be carried out during the soil excavation in asbestos contaminated materials

Contaminated/Asbestos impacted soils will be chased out until all contamination has been removed from the location of the unexpected find event.

Impacted Groundwater

Contaminated groundwater if present on the property will be treated to ensure compliance with the discharge conditions prescribed for this property. Depending on volumes, profile of contamination and contaminate load the appropriate treatment option may be:

- Off-site disposal using a tanker to a licensed facility;
- Treatment on site using an oily water separator, reagents or the like;
- Disposal under a Trade Waste Agreement; or
- Volume and quality of waters will be monitored at the discharge point.



Old Pipe/ Utility

The disused pipe will be carefully drilled or cut open to determine if there are any contaminates or residual liquids such as coal tar or diesel product resident in the pipework. Care must be taken to ensure there is no explosive risk when handling the old pipe work.

If the pipe is found to be asbestos or containing contaminates, it will be treated as described above.

The disused pipe will be carefully excavated and removed from the required excavation area. The pipe may be interconnected or intertwined with live services and care must be exercised not to drag it out of the ground with the potential to impact on other areas of the property.

The pipe may be cut up and disposed as scrap once cleared by EP RISK.

If the service is found to be live, the utility owner will advise on termination, relocation, protection and temporary diversion.

Man Made Items -Drum, UST, containers, pit or other structures

EP RISK will conduct sampling and analysis testing of materials contained within and surrounding any Man Made Structures uncovered to determine the volatility and toxicity of the suspect substances. This may also be used to provide Waste Classification Certification for the disposal of the materials.

Drums, plastic fuel containers, paint tins, oil cans and the like are to be removed and placed in a bunded container with 110% capacity. If the conditions of drums have deteriorated (rusted) to the point that it cannot be handled safely then an excavator will remove the drum and the surrounding soils and place them in a bunded area or a skip with 110% capacity.

UST encountered will be vented to release any trapped gases and any liquids removed to a licenced waste facility. The tank will be removed and dispose3d to a licenced facility in accordance with AS 4976-2008: The removal and disposal of underground petroleum storage tanks and NSW WorkCover Guidelines.

Pits or other structures will be cleaned of any waste or liquids entombed within the structure. The structure will be demolished using excavators and hydraulic hammers.

The pit structure may be sent for disposal at a recycling facility if EP RISK assess that no contamination has seeped into the structural elements.

Ground Conditions

EP RISK will supervise additional pot holing investigation to ensure that dramatic changes materials types are not symptomatic of buried sources of contamination, utility sand backfill or the like.

If the pothole investigation reveals the presence of contamination or asbestos, the soils will be treated as described previously.

If the sudden change in ground conditions is related to geotechnical issues such as structurally unsuitable soils or stability of excavation face, then the Site Manager may require a Geotechnical Engineer to provide instruction on appropriate ground improvements.

D6 - Verification of Works

EP RISK will provide evidence that the works to resolve the issues identified by the Unexpected Find have been completed as planned. This will provide demonstrable evidence for audit review or sign off as required.

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Contamination/ Asbestos

At the completion of the excavation works EP RISK will undertake a clearance inspection including taking samples from the walls and floor of excavations to demonstrate that all of the contaminated soils have been removed.

All soils will be tracked for off-site disposal and documentary evidence (weighbridge dockets, truck tally) of correct disposal is to be provided to the Principal.

If any fill materials are imported to the site, EP RISK will conduct inspection and check the soil classification (VENM or ENM) as appropriate for the property approvals.

Impacted Groundwater

EP RISK will monitor the volumes of groundwater discharged from the site and conduct validation sampling of the discharge waters to confirm that they meet the approved discharge limits. Documented records will be kept of discharge events and provided to the Principal for use in Audit Review or sign off as required.

Old Pipe/ Utility

EP RISK will monitor the removal of old pipework to ensure that any contaminated materials of liquids are identified and disposed of in a controlled manner.

Records of these works will be kept and provided to the Principal for use in Audits and sign-off as required.

Man Made Items -Drum, UST, containers, pit or other structures

At the completion of the removal of any Man Made Items, EP RISK will undertake a clearance inspection including taking samples from the walls and floor of excavations to demonstrate that all of the contaminated soils have been removed.

All materials will be tracked for off-site disposal and documentary evidence (weighbridge dockets, destruction certificates, truck tally) of correct disposal is to be provided to the Principal.

Notifications to Authorities in regards to the safe removal of UST's, drums containing scheduled wastes or the like will be issued by EP RISK on behalf of the Principal.

Ground Conditions

EP RISK will document the investigation works around any dramatic changes in geotechnical conditions by providing logs of pothole investigations and testing of any suspect materials.

D7 – Lessons Learned

EP RISK will review the Unexpected Find event and provide any observation to the Principal that may assist them in planning the works to reduce the potential for unplanned or unexpected events for the remainder of the current project and future projects by their firm.

Contamination/ Asbestos

• Are there opportunities to identify suspected hot spots of contamination or asbestos more thoroughly in the investigation of the project?

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- Were there incidents of harm or potential harm due to the unplanned event?
- Did the site history indicate the potential for unknown contamination events?
- Did the unplanned event incur a penalty cost greater than the costs of additional investigation?

Impacted Groundwater

- Was there evidence of groundwater levels during initial planning of the works?
- Is there a source of potential groundwater contamination that should have been assessed?
- Was there an additional cost penalty over and above the costs of treating groundwater due to the unplanned nature of the event?

Old Pipe/ Utility

- Was it possible to identify the presence of the pipe prior to excavation commencing through DBYG or the like?
- Did the unknown pipe/utility location present a safety risk to workers?

Man Made Items -Drum, UST, containers, pit or other structures

- Were there any indicators of Man Made Item identified in the Site Investigation reports?
- Were there incidents of harm or potential harm due to the unplanned event?
- Did the unplanned event incur a penalty cost greater than the costs of additional investigation?

Ground Conditions

- Were ground conditions assessed in the planning phase of the works?
- Were changes in surface ground profiles assessed in the planning phase?
- Are there structural implications for future development works?

D8 – Close Out Report

A report detailing all of the information as discussed above will be compiled by EP RISK and provided to the Principal (or their representative) and the site manager.

This report may be a simple letter format or a more substantial report depending on the extent of the issues identified by the Unexpected Find.

The content of the report may be communicated to all stakeholders through Tool Box Talks, Notice Boards and the like.

The report shall also be provided to the systems managers to ensure that any changes required in planning of the works are addressed.

In addition, the details of any unexpected finds will be reported in the validation report.

Unexpected Finds Protocol (UFP)



