



**Premise**

MR AND MRS SAM AND JACQUI MARTEL

## **Preliminary Contamination Investigation**

20L ROCKY ROAD (PORTION), DUBBO, NSW

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# 1. INTRODUCTION

## 1.1 Background

Premise was engaged by Mr and Mrs Sam and Jacqui Martel to conduct a Preliminary Contamination Investigation (PCI) for the site in support of a Planning Proposal to amend the Dubbo Regional Local Environmental Plan 2022 (LEP) in respect of the eastern portion of land at Lot 13 in DP 258406, 20L Rocky Road, Dubbo (the site) as shown on **Figure 1**.

The subject site comprises of approximately 50 ha of R5 Large Lot Residential zoned land. The site is located approximately 10 km south of the Dubbo CBD via Old Dubbo Road. The Macquarie River forms the western border of the land title and is approximately 260 m from the western boundary of the investigation site.

The Planning Proposal seeks to reduce the minimum lot size provision from 20 ha to 8 ha on the subject site. The area to which the proposed lot size reduction applies is currently zoned as R5 Large Lot Residential pursuant to the provisions of the LEP. The intent of the Planning Proposal is to facilitate the appropriate development of the subject site by creating provision for the subdivision of this land (under development application) to meet the objectives of the R5 zone.

Clause 4.6 of the Resilience and Hazards State Environmental Planning Policy (R&H SEPP) requires that a consent authority must consider contamination and remediation in determining a development application and must not grant consent unless:

- (a) it has considered whether the land is contaminated, and*
- (b) if the land is contaminated, it is satisfied that the land is suitable in its contaminated state (or will be suitable, after remediation) for the purpose for which the development is proposed to be carried out, and*
- (c) if the land requires remediation to be made suitable for the purpose for which the development is proposed to be carried out, it is satisfied that the land will be remediated before the land is used for that purpose.*

This PCI is recommended by the *Managing Land Contamination – Planning Guidelines* (Department of Urban Affairs and Planning 1998) under the NSW *State Environmental Planning Policy (Resilience and Hazards) 2021* (R&H SEPP).

This PCI is based on a desktop review of available information, a site walkover reconnaissance, analysis of targeted soil samples and a search of historical records.

## 1.2 Objectives

This PCI has been prepared in general accordance with the NSW EPA publication *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Land* (EPA, April 2020). The overall objective is to identify the potential for land contamination at the site. Where land is not considered to be suitable for proposed land uses, recommendations for management and/or remediation to minimise risk to the environment, future occupants and contractors would be included.

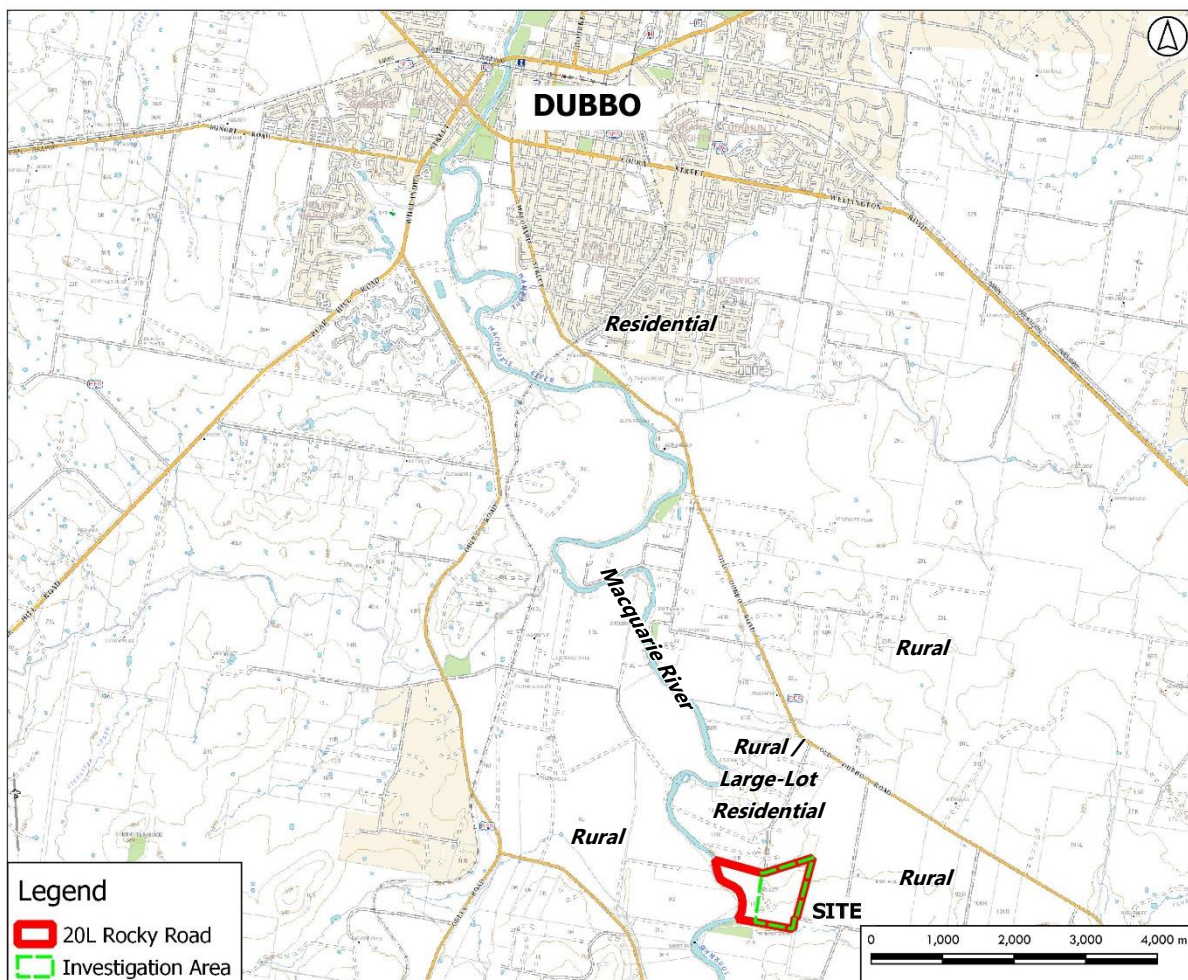
The specific objective of the PCI was to assess the extent of potential soil contamination at the site to have resulted from historic operations at or in proximity to the site. Findings of this investigation are intended to

assist the consent authority in assessing risks associated with a change of land use. The data collected is also intended to identify potential contaminant sources and to evaluate remediation or mitigation options.

This PCI provides data relating to the type, extent and level of contamination in the investigation area, by assessing:

- known site history and operations;
- contaminant distribution in surface soil;
- the adequacy and completeness of all information available to be used in making decisions on remediation to further characterise potential impacts to areas of the site;
- the scope of any further investigation required; and
- any interim management measures required to limit exposure.

**Figure 1 – Site Locality**



### 1.3 Investigation Area

The investigation area is shown on **Figure 2**.



The potential for chemicals of potential concern (COPC) to be present in the soil of the area comprising the proposed dwelling requires assessment. Elevated COPC may be representative of a contamination risk to human health and environmental receptors.

**Figure 2 – Site Investigation Area**



## 1.4 Scope of Work

The scope of work for this assessment consisted of the following components:

- Review of the following third party documents:
  - Published topographical, geological and soil maps of the area;
  - Details of groundwater bores located within 500 m of the site and registered on the groundwater bore database, maintained by the NSW Office of Water (<https://realtime.data.waternsw.com.au/water.stm>);
  - The public register managed by the NSW EPA for information on scheduled activities and penalty notices issued under the Protection of the Environment Operations Act;
  - The database managed by the NSW Environment Protection Authority (EPA) for information on notices issued under the Contaminated Land Management Act 1997;

- Aerial photographs – selected historical aerial photographs of the site available for review to provide evidence of the history of development of the site and indications of potential sources of contamination;
- Historic title information and charting maps.
- Site inspection – A site inspection by Premise personnel of the site and surrounding areas was undertaken to provide further information, via visual inspection, of potential sources and areas of significant environmental liability. The site inspection focused on the following:
  - Areas where operational processes may have occurred, including waste management, water management, site structures, surfaces and infrastructure.
  - Areas of potential landfilling.
  - Potential impacts of neighbouring land uses.
  - Sensitivity of the receiving environment.
- Collection of samples from surface soil at the site, and laboratory analysis for chemicals of potential concern (COPC) to establish potential for residual chemical impacts.
- Preparation of this factual report detailing the assessment findings in accordance with the NSW EPA publication *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Land* (EPA, 2020).

An overview of the neighbouring area was also conducted to identify the presence and proximity of sensitive receptors which could be significantly impacted upon by the site, and off-site operations which could have a significant impact on land contamination at the site.

## 2. SITE DESCRIPTION

### 2.1 Site Definition

Table 2.1 – Summary of Property Description Details

| Feature                                                                                                                                                                                                                                                                                                                                                                       | Details                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Site Address <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                     | 20L Rocky Road, Dubbo NSW (Portion)                          |
| Title Identification Details <sup>1</sup>                                                                                                                                                                                                                                                                                                                                     | Lot 13 in DP 258406 (Portion)                                |
| Current Ownership                                                                                                                                                                                                                                                                                                                                                             | Velo Holdings Pty Ltd                                        |
| Current Site Use and Zoning <sup>2</sup>                                                                                                                                                                                                                                                                                                                                      | Land Use: Rural<br>Zoning: Large Lot Residential (R5 zoning) |
| Future Site Use                                                                                                                                                                                                                                                                                                                                                               | Large Lot Residential (Subdivision and additional dwellings) |
| Previous Environmental Reports                                                                                                                                                                                                                                                                                                                                                | Nil                                                          |
| Site Area <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                        | 50 ha (approximately)                                        |
| Sources:<br>1: Partial survey, partial compilation of deposited plans, partial SIX Maps Website developed by NSW Government, Land and Property Information. <a href="https://maps.six.nsw.gov.au/">https://maps.six.nsw.gov.au/</a> (accessed September 2023).<br>2: Dubbo Regional Local Environmental Plan, 2013, under the Environmental Planning and Assessment Act 1979. |                                                              |

### 2.2 Site Setting

#### 2.2.1 REGIONAL SETTING

The site is located entirely within 20L Rocky Road in Dubbo, approximately 10 km south of the Dubbo central business district. The site is in a generally rural area, however semi-rural lands are located to the immediate north of the site (towards Old Dubbo Rd). Rural land borders the site to the east and south, and the remainder of Lot 13 borders to the west.

A drainage gully aligned and flowing north-to-south is present in the east of the site, which forms an unnamed tributary of the Macquarie River, (approximately 260 m west of the site).

The following sensitive receptors are located within the vicinity of the site:

- Watercourses, including contributory drainage features, discharging to Macquarie River. Such drainage pathways are considered to be sensitive receptors insofar as their connectivity with off-site waterways.
- Current users of the site, and future workers / occupants of the site.
- Residents of dwellings in proximity to the site.
- Groundwater present in aquifer(s) underlying the site.

#### 2.2.2 LOCAL SETTING

The farm homestead and shed structures exist within the investigation area. Other sheds are located on the property title west of the investigation area. The site itself consists of groundcover vegetation (grass) and unsealed access roads, and trees are present predominantly in the southern portion.

Land uses adjacent to the site were obtained from the site inspection conducted by Premise personnel in August 2023. The local area surrounding the site is displayed in **Figure 1**. Identified adjacent land uses are summarised in **Table 2.2**:

**Table 2.2 – Adjacent Properties Descriptions**

| Direction from Site | Site Use (Nature of Activity)           |
|---------------------|-----------------------------------------|
| North               | Large lot residential                   |
| South               | Unnamed creek, Rural land with dwelling |
| East                | Rural land                              |
| West                | Rural land                              |

## 2.3 Topography and Surface Water

Topographical site information was obtained from the:

- Dubbo SI55-04, 1:250,000 Scale, Topographic Map, Third Edition (Commonwealth of Australia – Geoscience Australia, 2004); and
- Site visit in June 2023

The site of the investigation area consists of a generally undulating landscape with a discernible overall slope downward to the south and west. The elevation at the site ranges from approximately 300 m Australian Height Datum (mAHD) in the north-east, to a high of approximately 310 mAHD at the peak of a hillock in the site's north, to a low of approximately 270 mAHD in the south-west.

Whilst a defined drainage pathway exists in the east of the site, the majority of overland surface flow is presumed to be absorbed into the site. The catchment of surface water flow at the site would include areas to the east of the site, including from other properties.

## 2.4 Regional and Site Geology

Mapped soil landscapes around the site are shown on **Figure 3**. The northern portion of the site lies on the 'Wongarbon' soil landscape and the southern portion of the site lies on the 'Eulomogo' soil landscape. During the site inspection the soils were identified to be 'euchrozems' in the site's north, tending to 'red earths' in the site's south.

Euchrozems of the Wongarbon soil landscape consists of *"dark reddish-brown clay loam to light clay"* overlying *"dark reddish-brown light to medium clay, changing at 40 cm to reddish-brown to dark red light to medium clay"*.

Red earth soil of the Eulomogo soil landscape consists of *"Dark reddish-brown to light reddish-brown sandy loam"* overlying *"dark reddish-brown to light reddish-brown, fine sandy clay loam"*.

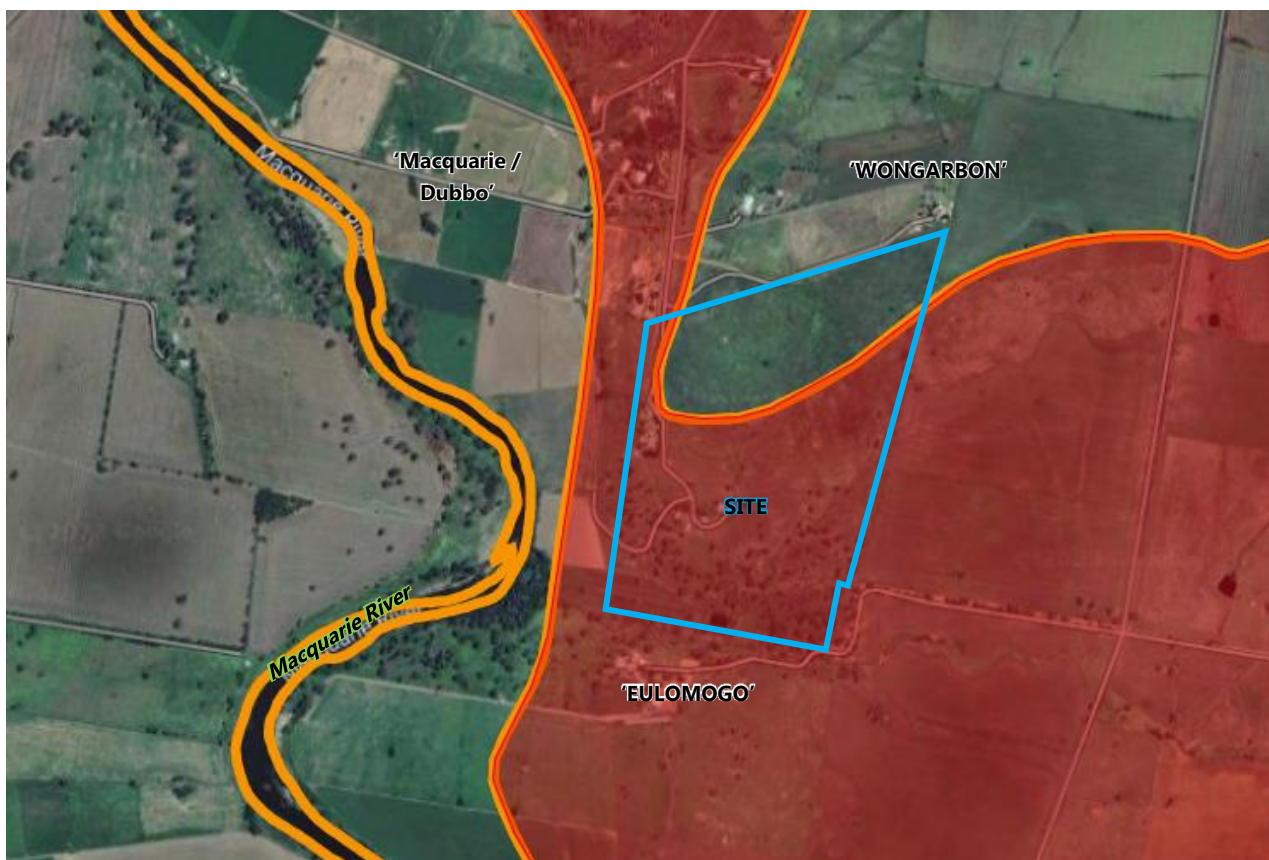
The Dubbo 8633 Geological 1 : 100,000 Series Sheet (First Edition, Geological Survey of NSW, 2000) indicates the majority of underlying geology comprises Quaternary era alluvial silt, clay and sand, with variable humic content. Geology may be influenced by the Napperby Formation in the site's north-east, where siltstone, sandstone minor conglomerate may be encountered.



The Australian Soil Resource Information System (ASRIS) on-line database, maintained by CSIRO Land and Water, indicates there is a low probability of occurrence of acid sulphate soils in the area of the site (compiled 2010, accessed September 2023).

The NSW Heads of Asbestos Coordination Authorities (HACA) Mapping of Naturally Occurring Asbestos in NSW (2015) has assessed the geology surrounding the site (i.e., the volcanic sandstone and conglomerate) as having negligible potential for naturally occurring asbestos (NOA) to be found within 10 m of the ground surface. The site is located approximately 20 km north-east of a geological unit with potential for NOA.

**Figure 3 – Extent of Soil Landscape Groups**



## 2.5 Regional Hydrogeology

A search for registered groundwater users located proximal to the site was undertaken using the WaterNSW on-line database (<https://realtimedata.waternsw.com.au/water.stm>), in August 2023. The results indicated that there are no groundwater bores registered at the site and two (2) bores are registered within 500 m of the site. Details of the closest bores to the site are provided in **Table 2.3**.

**Table 2.3 – Groundwater Bores within 500 m of Site**

| <b>Licence Reference and Registered Use</b>                                                                                                                      | <b>Location (relative to closest portion of site)</b> | <b>Depth</b> | <b>Uppermost Water Bearing Zone</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------|-------------------------------------|
| GW802644, Stock / Domestic                                                                                                                                       | 115 m west                                            | 30.0 mBGL    | 12.0 mBGL to 20.0 mBGL              |
| GW008211, Stock / Domestic                                                                                                                                       | 120 m west                                            | 19.8 mBGL    | 8.5 mBGL                            |
| Source: NSW Office of Water on-line database ( <a href="https://realtime.data.watersnsw.com.au/water.stm">https://realtime.data.watersnsw.com.au/water.stm</a> ) |                                                       |              |                                     |

Registration details of the above groundwater bore are included in **Appendix A**.

Premise has considered the surrounding land uses (refer **Section 3**) and notes the potential for unregistered bores for irrigation, stock and/or domestic purposes proximal to the site.

### 3. SITE HISTORICAL REVIEW

A review of the site history was undertaken to assess historical use of the site, and in particular to identify activities with the potential to contaminate soil and/or groundwater at the site.

#### 3.1 NSW EPA Records

##### 3.1.1 SCHEDULED ACTIVITIES AND/OR ENVIRONMENTAL NOTICES

A search of the NSW EPA on-line register (<https://www.epa.nsw.gov.au/prpoeoapp/>) was undertaken in September 2023 for environment protection licenses (EPLs) and/or penalty notices issued under the Protection of the Environment Operations Act (POEO) 1997. No properties located within 500 m of the site are currently licensed under the POEO Act.

No clean-up notices relating to the site or surrounding properties have been issued by the NSW EPA.

##### 3.1.2 CONTAMINATED SITES REGISTER

A search of the NSW EPA on-line register (<https://app.epa.nsw.gov.au/prclmapp/searchregister.aspx>) and 'List of Notified Sites' was undertaken in September 2023 for contaminated land notices issued or regulated under the Contaminated Land Management (CLM) Act 1997. The search indicated that the NSW EPA holds no contaminated land notices relating to the site or properties within 500 m of the site. No properties were recorded as having been notified to the NSW EPA as potentially contaminated.

#### 3.1 Previous Title Information

Historic title information was sought for titles comprising the site. Previous title ownership for this title is attached in **Appendix B** and summarised in **Table 3.1**:

**Table 3.1 – Title History, Lot 21, DP 848167**

| Date Range                   | Ownership                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 20.12.1913<br>(1913 to 1935) | <b>Volume 2422 Folio 187</b><br>Thomas Draper Palmer (Farmer & Grazier)                                            |
| 02.04.1935<br>(1935 to 1944) | <b>Volume 2422 Folio 187</b><br>Florence Elizabeth Palmer (Widow)<br>George Thomas Bryan Palmer (Farmer & Grazier) |
| 20.12.1944<br>(1944 to 1949) | <b>Volume 2422 Folio 187</b><br>John Mankin Mackay (Grazier)                                                       |
| 01.12.1949<br>(1949 to 1952) | <b>Volume 5484 Folio 231</b><br>Thomas Theyre Weigall (Grazier)                                                    |
| 28.02.1952<br>(1952 to 1952) | <b>Volume 5484 Folio 231</b><br>Dorothy Clare Weigall (Widow)                                                      |
| 18.04.1952<br>(1952 to 1958) | <b>Volume 5484 Folio 231</b><br>Sydney Denson Wye (Grazier)                                                        |

| Date Range                   | Ownership                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------|
| 11.07.1958<br>(1958 to 2022) | <b>Volume 13008 Folio 101 / Volume 13974 Folio 179</b><br>Howard Sydney Wye (Farmer & Grazier) |
| 06.07.2022<br>(2022 to date) | <b>Lot 13 DP 258406</b><br>Velo Holdings Pty Ltd                                               |

## 3.2 Historic Aerial Photography

An historical aerial photography survey was undertaken for the site, with a total of eight (8) photographs identified and reviewed. The historical aerial photographs that were reviewed spanned a period of approximately 69 years, with the most recent from 2023, to the earliest in 1964. Aerial photographs, as attached in **Appendix C**, were reviewed to track changes in use of the site and surrounding properties over time. Key observations made during the review of aerial photos are summarised in **Table 3.1** as follows:

**Table 3.1 – Summary of Aerial Photo Information**

| Date | Site Activity                                                                                                                                            | Surrounding Land Use                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1964 | The farm sheds are present within the investigation area. The site appears to be utilised for grazing.                                                   | The area exists as rurally used land to the south of Dubbo. Sheds are present to the west of the site and a homestead with associated structures is present to the south. |
| 1980 | The homestead (and ancillary structures) is now present in the west of the site. The area encompassing the remainder of the site is generally unchanged. | Land uses of the surrounding area do not appear to have been significantly altered.                                                                                       |
| 1991 | The area encompassing the site is generally unchanged.                                                                                                   | Land uses of the surrounding area do not appear to have been significantly altered.                                                                                       |
| 1995 | The area encompassing the site is generally unchanged.                                                                                                   | Structures are now present to the immediate north-east of the site.<br>Other land uses of the surrounding area do not appear to have been significantly altered.          |
| 2006 | The area encompassing the site is generally unchanged.                                                                                                   | Dwellings are now present in rural blocks to the north of the site.<br>Other land uses of the surrounding area do not appear to have been significantly altered.          |
| 2016 | The area encompassing the site is generally unchanged.                                                                                                   | An expansion of a farm shed to the south of the site has occurred.<br>Other land uses of the surrounding area do not appear to have been significantly altered.           |
| 2023 | The area encompassing the site is generally unchanged.                                                                                                   | Land uses of the surrounding area do not appear to have been significantly altered.                                                                                       |

### 3.3 Summary of Site History Information

The site of the investigation area appears to contain farm shed structures present since prior to 1964, and a homestead dwelling with associated ancillary structures present since prior to 1980. The majority of the site largely has not been actively utilised beyond grazing or other low-intensity agricultural uses.

No evidence of landfilling was apparent from the historic aerial photography, and no evidence of significant 'cut' and/or 'fill' occurring exists.

The following chemicals are potential contaminants at areas of the site based on known historic uses:

- Machinery Use / Storage
  - Heavy metals
  - Petroleum Hydrocarbons and related compounds
- Chemical storage and/or use
  - Heavy metals
  - Total Recoverable Hydrocarbons (TRH) / Total Petroleum Hydrocarbons (TPH)
  - Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN Analytes)
  - Polynuclear Aromatic Hydrocarbons (PAHs)
  - Phenolic compounds
  - Organochlorine pesticides (OCPs)
  - Organophosphorus pesticides (OPPs)
  - Phenoxyacid Herbicides

## 4. SITE RECONNAISSANCE

Observations from the site inspection are summarised below.

### 4.1 Waste Management / Landfilling

Evidence of wastes having been disposed on the site by burial / landfilling was identified at portions of the site, as shown on **Figure 4**. In other areas the ground surface was observed to be generally even and no areas of potential subsidence were apparent.

Stressed vegetation, which may be indicative of soil and/or groundwater contamination, was not apparent during the site inspection.

Stockpiled material of uncertain origin was identified in areas of the site, as shown on **Figure 4**.

Based on observations there is little potential for 'cut-and-fill' civil works of significance to have occurred at the site.

### 4.2 Stormwater

The majority of site stormwater would be infiltrated, however sheet flow may be generated and discharge to the south and west of the site.

### 4.3 Chemical and Fuel Storage / Spills

Evidence of stored fuels or oils chemicals was observed at the site within the farm sheds.

No findings of the historic aerial photography review (refer to **Section 3.4**) indicate the presence (historic or otherwise) of bulk chemical storage infrastructure at the site.

No sheep dips or cattle dips were observed at the site or anecdotally known to have been installed.

### 4.4 Asbestos

Premise did not conduct a comprehensive asbestos survey of the structures at the site during the inspection. Potential exists for site structures to have incorporated fibrous cement in cladding, roofing, insulation, piping, etc.



## 5. ENVIRONMENTAL INVESTIGATION

### 5.1 Potential Contamination Issues

#### 5.1.1 POTENTIAL SOURCES

Based on the historic and predominantly agricultural uses of the site, activities that are considered to have the potential to adversely impact the soil environment are limited to those associated with application / storage of agricultural chemicals.

#### 5.1.2 CHEMICALS OF POTENTIAL CONCERN (COPC)

COPC associated with previous uses of the site and considered to have the potential to adversely impact the underlying soil and groundwater environments include:

- Heavy metals
  - Arsenic (As)
  - Cadmium (Cd)
  - Chromium (Cr)
  - Copper (Cu)
  - Lead (Pb)
  - Mercury (Hg)
  - Nickel (Ni)
  - Zinc (Zn)
- Total Recoverable Hydrocarbons (TRH) / Total Petroleum Hydrocarbons (TPH)
- Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN Analytes)
- Polynuclear Aromatic Hydrocarbons (PAHs)
- Phenolic compounds
- Organochlorine pesticides (OCPs)
- Organophosphorus pesticides (OPPs)
- Phenoxyacid Herbicides

### 5.2 Data Quality Objectives

The Data Quality Objectives (DQOs) process is used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

A summary of the site-specific DQO process to be adopted in this investigation is provided in the following sections, in the context of the seven step iterative planning approach provided in the 'Amended ASC NEPM' (NEPC, 2013), and the United States Environment Protection Agency (US EPA) documents *Guidance on Systematic Planning Using the Data Quality Objectives Process* (2006) and *Data Quality Objectives Process for Hazardous Waste Site Investigations* (2000).

### 5.2.1 STEP 1 – STATE THE PROBLEM

The primary objective is to assess for the presence and extent of contamination in soil at the site in the context of the proposed future land use scenarios i.e., residential land use.

The main problems are:

- At present there is limited data and existing data gaps on the contamination status of the site.
- Contamination remaining at the site may present an unacceptable risk to human health and/or ecological receptors.

The investigation area is illustrated on **Figure 2**.

### 5.2.2 STEP 2 – IDENTIFY THE DECISION

The principal study question that arises from Step 1 is:

*What scope of work is required to assess the potential risks posed by contamination and obtain sufficient data to enable conclusive statements to be made on land use suitability; or allow the development of strategies to remediate and/or manage the contamination to an end land use that is suitable for the proposed redevelopment?*

Project decisions include:

- Does the environmental media at the site contain concentrations of chemicals of potential concern (COPC) above the investigation criteria for the current and proposed land use?
- Do current concentrations of contaminants pose a human health or ecological risk to the receptors of concern?
- What are the pathways of exposure for human and ecological receptors?
- Is there sufficient data to develop the scope for further investigation or remedial strategies?
- Is there sufficient data to establish whether portions of the site are currently suitable for the intended land uses?
- Can the site be made suitable for the proposed future land use?

### 5.2.3 STEP 3 – IDENTIFY THE INPUTS TO THE DECISION

The primary inputs required include:

- Relevant background data provided and any relevant data obtained from previous investigations.
- New data collected and observations made during field works, which may include information on potential contaminant migration pathways (e.g. stormwater drainage and groundwater flow directions).
- Results of chemical analyses of samples for the identified COPC.
- Assessment of the suitability of new and old data for the purposes of environmental assessment through application of data quality indicators (DQIs), namely precision, accuracy, representativeness, completeness and comparability (PARCC) parameters.
- Assessment of the data in the context of the adopted investigation criteria.

### 5.2.4 STEP 4 – DEFINE THE STUDY BOUNDARIES

The spatial boundaries are limited to:

- Lateral – as defined by the areas illustrated on **Figure 2**.

- Vertical – from the existing ground level to the depth necessary to collect soil data to delineate the vertical extent of impact.

Temporal boundaries are not considered to be necessary in the context of this investigation.

### 5.2.5 STEP 5 – DEVELOP A DECISION RULE

The decision rules will be:

- If the concentrations of contaminants in the new data exceed investigation criteria; then assess the need to further investigate the extent of impacts on-site and off-site.
- If it is assessed that contamination at the site poses an unacceptable risk to human health and/or the environment; then make recommendations for potential management options necessary to remove/reduce the risk.
- If aesthetic issues (i.e. visible waste material) identified during field observations pose potential concerns for the future development, then consider similar recommendations for potential management options necessary to remove/reduce the concern.

Decision criteria for QA/QC measures are defined below. A decision on the acceptance of the analytical data will be made on the basis of the Data Quality Indicators (DQI) in the context of the 'PARCC' parameters as follows.

- Precision: A quantitative measure of the variability (or reproducibility) of data.
- Accuracy: A quantitative measure of the closeness of reported data to the "true" value.
- Representativeness: The confidence (expressed qualitatively) that data are representative of each media present on Site.
- Completeness: A measure of the amount of useable data from a data collection activity.
- Comparability: The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event.

The quantitative and qualitative measures/criteria employed to enable application of these parameters are described as follows:

#### **Precision**

Suitable criteria and/or performance indicators for assessment of precision include:

- Performance of laboratory duplicate sample sets through calculation of relative percentage differences (RPD).
- The RPDs will be assessed as acceptable if less than 30%. RPDs that exceed this range may be considered where:
  - Results are less than 10 times the limit of reporting (LOR) – RPDs values of 100% or less would be acceptable in consideration of all other DQI data
  - Results are less than 20 times the LOR and the RPD value is less than 50%
  - Elevated organic compounds are detected, where field observations indicated organic matter or volatile compounds to be present, and the RPD is less than 50%
  - Heterogeneous materials and variations in soil types and compositions are encountered.

#### **Accuracy (Bias)**

The closeness of the reported data to the 'true' value is assessed through review of performance of:

- Method blanks, which are analysed for the analytes targeted in the primary samples.
- Matrix spike and matrix spike duplicate sample sets (to be specifically requested to be performed by the primary laboratory, for each sample batch submitted).
- Laboratory control samples.
- Surrogates.

### **Representativeness**

To ensure the data produced by the laboratory is representative of conditions encountered in the field, the following steps are taken by the laboratory and subsequently reviewed:

- Blank samples will be run in parallel with field samples to confirm there are no unacceptable instances of laboratory cross-contamination.
- Review of relative percentage differences (RPD) values for field and laboratory duplicates to provide an indication that the samples are generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities.
- The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (e.g., volatile loss during transport due to incorrect preservation / transport methods).

A review of the methodology used to collect all samples (soil, groundwater, surface water, sediment) will also ensure the representativeness of the data.

### **Completeness**

In validating the degree of completeness of the analytical data sets acquired during the program the following is considered:

- Whether standard operating procedures (SOPs) for sampling protocols have been adhered to.
- Copies of all COC documentation are reviewed and presented.
- Have sufficient soil samples have been collected and analysed.

It can therefore be considered whether the proportion of 'useable data' generated in the data collection activities is sufficient for the purposes of the land use assessment.

### **Comparability**

Given that the reported data set can comprise several data sets from separate sampling events, issues of comparability between data sets are reduced through adherence to Standard Operating Procedures (SOPs) and regulator endorsed or made guidelines and standards on each data gathering activity.

In addition the data will be collected by experienced field staff and NATA accredited laboratory methodologies will be engaged in all laboratory operations.

## **5.2.6 STEP 6 – SPECIFY LIMITS ON DECISION ERRORS**

Specific limits for this project are in accordance with the appropriate guidance made or endorsed by the NSW EPA, appropriate indicators of data quality, and standard procedures for field sampling and handling.

This step also examines the certainty of conclusive statements based on the available site data collected to quantify the allowable errors in decision making. This should include the following points to quantify tolerable limits:

1. A decision can be made based on whether the calculated 95% Upper Confidence Limit of the arithmetic mean concentration of a chemical in soil, within a specified soil data set, will satisfy the given site criteria. Therefore a limit on the decision error will be 5% that a conclusive statement regarding a specified soil data set may be incorrect.
2. For the 95% Upper Confidence Limit of the arithmetic mean concentration of a chemical in soil to be considered, the standard deviation of the results should be less than 50% of the relevant investigation or screening level, and no single value should exceed 250% of the relevant investigation or screening level.

#### 5.2.7 STEP 7 – OPTIMISE THE DESIGN

The investigation program presented for the area identified on **Figure 2** is aimed at obtaining the necessary data to allow the identified decisions in Step 2 to be made.

The sampling design is presented in detail in **Sections 5.4** of this document. A comprehensive Sampling and Analysis Quality Plan (SAQP), identified in *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Land* (EPA, April 2020) as a requirement of a S1 PSI where sampling is undertaken, has not been prepared as a component of this investigation. Premise notes this as a deviation from the guidelines, however considers a SAQP to not be warranted based on the relatively low-risk historic uses of the site as identified in the desktop portion of this investigation.

### 5.3 Soil Investigation Criteria for Residential Land-Uses

#### 5.3.1 HUMAN HEALTH

The soil investigation levels utilised for this investigation are consistent with those described within the National Environment Protection Council (NEPC), *Amended National Environment Protection (Assessment of Site Contamination) Measure 1999* (Amended ASC NEPM) 2013. Based on future uses at the site including residential, corresponding investigation levels have been adopted, as follows.

- Health Investigation Levels (HIL) A – includes residential with garden / accessible soil (no poultry), also includes childcare centres, preschools and primary schools.
- Aesthetic issues generally relate to the presence of materials with a negligible risk or non-hazardous inert foreign material in soil or fill resulting from human activity. In particular, soils on site should not exhibit discolouration (staining), a malodorous nature (odours) or abnormal consistency (rubble and asbestos).

#### 5.3.2 ECOLOGICAL

The Amended ASC NEPM (2013) is also applicable for assessing risk to ecological receptors by providing ecological investigation levels (EILs) for heavy metals.

- The Amended ASC NEPM (NEPC, 2013) provides EILs for selected metals and organic substances, applicable for assessing risk to terrestrial ecosystems. EILs can be dependent on specific soil physicochemical properties. It is noted that the EILs generally apply to the top two metres of soil and are based impacts present in soil for at least 2 years.
- Based on the current land use and zoning for the site and identified COPC, the EILs utilised to assess the potential risks to ecological receptors are 'added contaminant limits' (ACLs) for zinc, copper, chromium, nickel and lead, and as such are considered to be conservative. The generic EIL for arsenic has been adopted.

- Concentrations of contaminants in the soil are to be compared against the urban residential / public open space land use EILs.
- For the purposes of this investigation and based on field observations during sampling, conservative soil physicochemical properties have been assumed, as follows:
  - pH of 5.0
  - Cation exchange capacity (CEC) of 10 cmol<sup>(+)</sup>/kg
  - Clay content 1%

## 5.4 Sampling and Analysis Strategy

### 5.4.1 METHODOLOGY

The following table outlines the scope and method of the assessment.

**Table 5.1 – Assessment Methodology Summary**

| Activity / Item          | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of Field Activities | 24 August 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples Collected        | <p>Sample locations are shown on <b>Figure 4</b></p> <p>22 soil sampling locations were identified in a combined systematic / judgemental sampling pattern from across the site.</p> <p>It is recognised that the sampling density for assessing the nominated site zones was fewer than minimum requirements of the Australian Standard AS4482.1-2005, Guide to the investigation and sampling of sites with potentially contaminated soil for land areas of certain sizes. The broad coverage of the sampling locations is considered to have provided a representative indication of potential soil contamination at the site and achieved the overlying objectives of the project.</p> <p>The registered locations of groundwater bores, between the site and Macquarie River, were inspected for potential sampling, however any previously installed groundwater extraction infrastructure was no longer present.</p> |
| Sample Depth             | Shallow soil samples were collected at each of the 22 locations, at a depth corresponding to soil most likely to have been impacted by off-site COPC sources (i.e., in the upper 15 cm and within the root zone). Sample locations were extended to a depth of 0.4 m below ground level (mBGL) to visually assess for the presence of fill or buried waste, and additional samples collected as considered necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Methodology              | Soil samples were collected directly by hand auger or trowel. All samples were placed in clean, laboratory-supplied acid washed solvent rinsed glass jars with Teflon® lids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample Preservation      | Samples were stored on ice in a chilled container whilst on-site and in transit to the laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Decontamination          | Re-usable equipment was decontaminated before each use using decontamination solution, then rinsed in potable water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



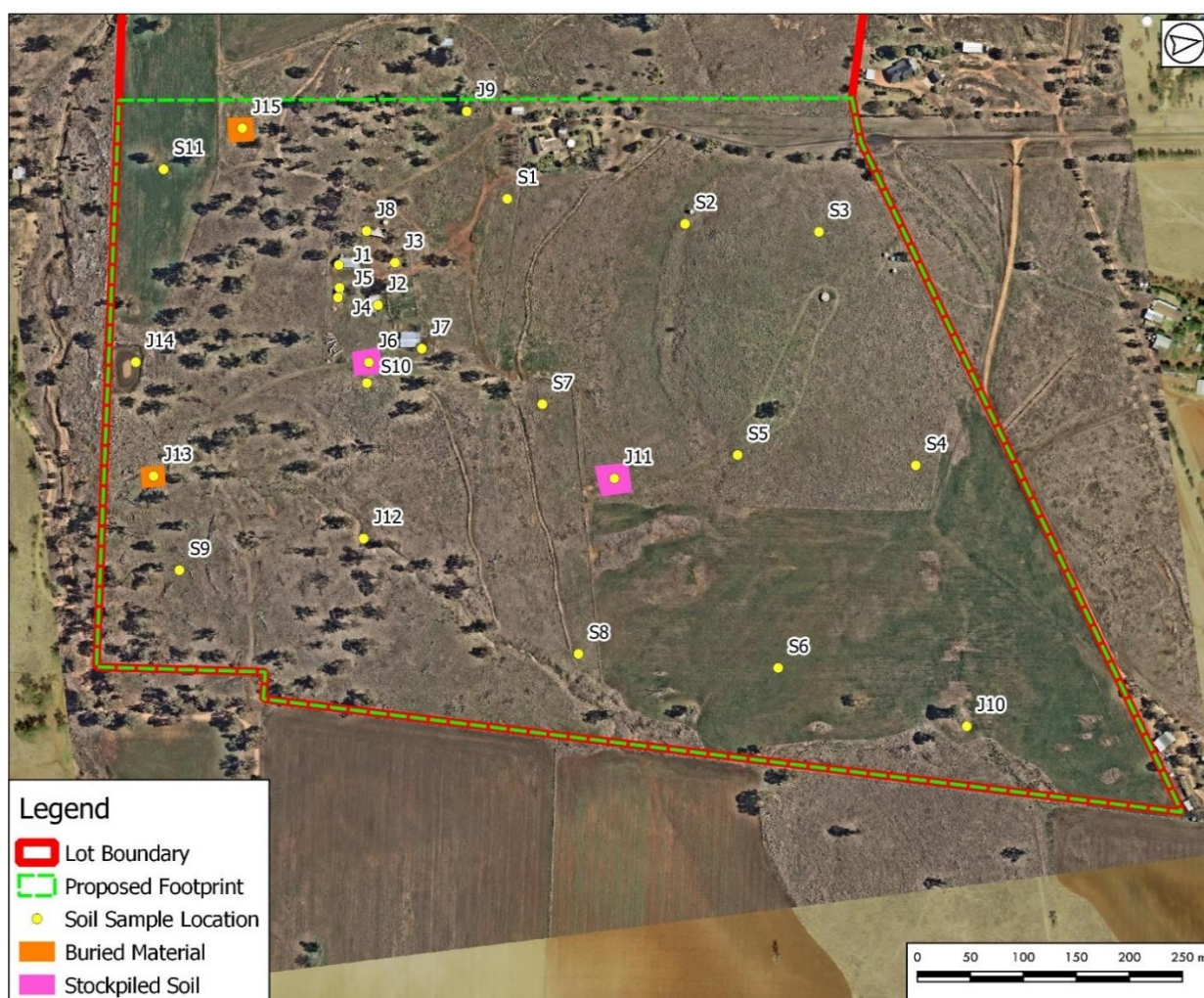
| Activity / Item | Details                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Dedicated single-use items were not decontaminated, but were disposed following use.<br>Nitrile gloves used for sampling were changed between each sample. |

#### 5.4.2 SAMPLE ANALYSIS

23 samples of soil where potential for COPC impacts to be present were submitted to ALS Laboratories (ALS) for analysis. ALS is NATA (National Association of Testing Authorities) certified for the analyses performed.

Soil samples were analysed COPC described in **Section 5.1.2**, as appropriate.

**Figure 4 – Investigation Sampling Locations**



## 5.5 Soil Analytical Results

Soil descriptions were logged as a dark red to dark brown clay loam (firm) of low/medium plasticity. Evidence of buried waste was apparent during collection of soil samples at locations J13 and J15. Stockpiled material was present at locations J6 and J11, and potential chemical staining of soil was observed at location J5.

Soil analytical results are presented in the laboratory certificates in **Appendix D** and summarised in **Table 1** (attached). Results were compared to human health and ecological criteria adopted from the Amended ASC NEPM (NEPC, 2013), as detailed in **Section 5.3**.

Findings of the soil investigation indicated no exceedances of residential HSL/HIL criteria. Exceedances of EIL/ESL criteria were recorded as follows:

- A copper concentration was recorded at above the EIL of 60 mg/kg at sample location J11 (62 mg/kg).
- Zinc concentrations were recorded at above the EIL of 180 mg/kg at sample locations J1, J2, J5 and J9, at concentrations ranging from 276 mg/kg (J2) to 1610 mg/kg (J5).
- Chromium concentrations were recorded at above the EIL of 190 mg/kg at sample locations J5 (254 mg/kg) and J11 (238 mg/kg).

Premise notes the conservative nature of the adopted EILs, which correspond to the '*added contaminant limit*' (ACL), i.e., the concentration above background which may warrant further investigation.

## 5.6 Quality of Analytical Data

### 5.6.1 OUTLINE

Analytical data validation is the process of assessing whether data are in compliance with method requirements and project specifications. The primary objectives of this process are to ensure that data of known quality are reported, and to identify if the data can be used to fulfil the overall project objectives.

The adopted data validation process is based on guidance documents published by the United States Environmental Protection Agency (USEPA) and the National Environment Protection Council. These include the following guidelines:

- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA 540-R-2017-001, dated January 2017);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2017-002, dated January 2017); and
- NEPC (2013), National Environment Protection (Assessment of Site Contamination) Measure, 1999, Guideline on Investigation Levels for Soil and Groundwater.

The process involves the checking of analytical procedure compliance and the assessment of the accuracy and precision of analytical data from a range of quality control measurements, generated from both field sampling and analytical programs.

### 5.6.2 QA/QC ASSESSMENT

Specific elements that have been checked and assessed for this project include:

- Preservation and storage of samples upon collection and during transport to the laboratory;
- Holding times;
- Use of appropriate analytical procedures;
- Required limit of reporting (LOR);
- Frequency of conducting quality control measurements;
- Laboratory blanks;
- Laboratory duplicates;

- Matrix spike / matrix spike duplicates (MS/MSDs);
- Surrogates (or System Monitoring Compounds); and
- The occurrence of apparently unusual or anomalous results, e.g. laboratory results that appear to be inconsistent with field observations or measurements.

Laboratory chain of custody (COC) documentation and analytical QA/QC reports are included in **Appendix E**.

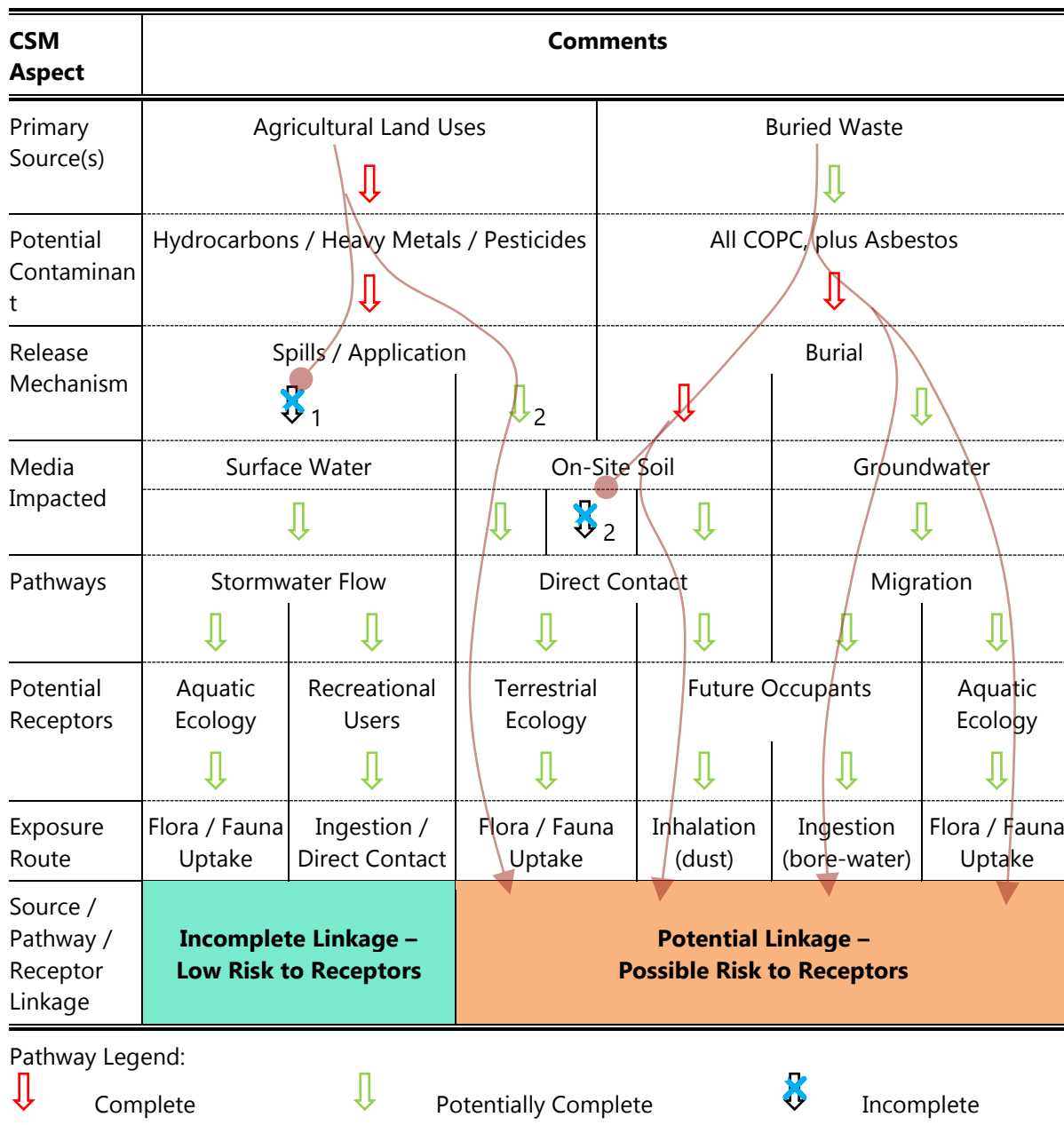
On the basis of the analytical data validation procedure employed, the overall quality of the analytical data produced is considered to be of an acceptable standard for interpretive use.

## 5.7 Discussion

### 5.7.1 CONCEPTUAL SITE MODEL

A conceptual site model (CSM) for the site has been prepared to identify contamination sources and transport mechanisms, and exposure pathways to receptors. An 'incomplete' linkage between the source and the receptor (indicated by a ) indicates the risk to that receptor is considered to be negligible. Based on the current investigation findings, linkages in the CSM between sources and receptors are illustrated below.

Figure 5 – Conceptual Site Model



Incomplete source / pathway / Receptor linkages identified in the CSM are explained below:



1 – Contaminant concentrations in soil at the site were not identified to be elevated. A risk of mobilisation to downgradient aquatic ecology or surface water bodies used for recreation is not considered to be present.



2 – Contaminant concentrations in soil at locations of buried waste were not identified to be elevated. A risk to the resident soil ecology from direct contact to buried waste is not considered to be present.

### **5.7.2 CHARACTERISATION OF RESIDUAL RISKS**

Potentially complete linkages in the CSM are summarised below:

- Elevated concentrations of heavy metals in soil may present a localised risk to the resident soil ecology.
- Burial of waste material has been identified at two locations at the site. Potential exists for asbestos-containing material (ACM) to be present, which may present a risk to future site occupants encountering this material.
- Buried waste material has potential to generate leachate which can migrate to other receptors.
  - Future site occupants may construct groundwater bore(s) to supplement domestic water supply, presenting a potential risk to human health.
  - Depending on hydrogeological conditions, impacted groundwater may migrate and present a potential risk to ecological receptors.

### **5.7.3 SUMMARY**

Concentrations of COPC above the adopted ecological criteria are not necessarily inferred to be associated with historic activities at the site, and may, in contrast, be indicative of background or baseline conditions.

Potential risks to human health may be present in the investigation area based on the identified presence of buried waste (locations J13 and J15). The site inspection could not delineate the depth of impact, however based on other examples of burying waste in rural settings, impacts deeper than 1 m are generally not common. Buried waste may contain ACM, potentially in the form of fragments or respirable fibres.

Within the investigation area, the potential risk to ecology posed by copper, chromium and zinc impacted soil is considered to be limited to the resident soil ecology. Due to the disturbed nature of the site, and the absence of stressed vegetation, the potential for impact from this identified risk is considered to be low.

The coverage provided by the systematic / judgemental sampling pattern from across the site is considered to have sufficiently delineated lateral impacts.



## 6. CONCLUSIONS

### 6.1 Summary

Premise make the following conclusions regarding the potential for land contamination at the site, based on a desktop review of available information, a review of historical records, site walkover reconnaissance, and analytical results of collected samples.

- The area comprising the site, consisting of a portion of Lot 13 in DP 258406 (**Figure 2**) appears to have predominantly been historically utilised for grazing or other low-intensity agricultural uses. Farm homestead and shed structures exist within the investigation area.
- Based on analytical results of samples collected from the soil investigation and consideration of routes of exposure by receptors (current or future) to potential contamination sources (refer to CSM, **Figure 5**), potential exists for risks to human health and/or ecology within the investigation area.
- Potentially complete linkages in the CSM (source – pathway – receptor) have been identified. The following items were considered to be of significance in the context of this investigation:
  - Elevated concentrations of heavy metals in soil may present a localised risk to the resident soil ecology.
  - Burial of waste material has been identified at two locations at the site. Potential exists for asbestos-containing material (ACM) to be present, which may present a risk to future site occupants encountering this material.
  - Buried waste material has potential to generate leachate which can migrate to other receptors. This may include future site occupants (constructing and operating groundwater bores) or ecological receptors exhibiting hydrogeological connectivity to the site.
- With the exceptions of potential soil impacts from buried waste, there is little evidence of historic land uses to have caused impacts within the investigation area that may present a risk to human health.
- Based on the nature and extent of COPC being identified within the investigation area, Premise considers that the site can be made suitable for future residential land use with appropriate management of impacted soil material prior to future additional residential occupation of the site.

### 6.2 Recommendations

As a result of potentially complete source-pathway-receptor linkages in the CSM, the following works are recommended as measures to further characterise and mitigate the identified risks to human health and/or the environment:

- In the short-term, characterise areas of historic waste burial, to establish the extent and nature of filling.
- Consider necessity and options for management of areas where buried waste has been identified (J13 and J15), in conjunction with areas of heavy metal impacted soil (J5). Management options may include containment within a dedicated waste cell, or off-site disposal to an appropriately licensed waste facility.
- If asbestos impacts in soil are identified for removal from the site, the process is to be managed (handling, transport and disposal) by either a class A for friable or class B for bonded licensed removalist. SafeWork NSW and other relevant authorities will need to be notified as appropriate throughout the removal and disposal process. Prior to removal, material will require classification in accordance with the NSW Waste Classification Guidelines Part 1: Classifying Waste (NSW EPA, 2014)

- An appropriately licenced or suitably experienced person is required to complete a clearance inspection at the conclusion of asbestos removal works, if necessary.
- Given the disturbed nature of the site, any subsequent construction works are to be conducted with adherence to an 'unexpected finds protocol' (UFP), prepared as a component of a construction environmental management plan (CEMP). The UFP would identify triggers for indicators of potential contamination and specify actions to be taken in the event of such indicators being encountered during construction works.





# DATA TABLES





## CERTIFICATE OF ANALYSIS

**Work Order** : **ES2329175**  
**Client** : **PREMISE NSW Pty Ltd**  
**Contact** : **B STUART**  
**Address** : **154 Peisley St,  
Orange 2800**  
**Telephone** : **----**  
**Project** : **123050 RRD**  
**Order number** : **----**  
**C-O-C number** : **----**  
**Sampler** : **B. Searl**  
**Site** : **----**  
**Quote number** : **EN/222**  
**No. of samples received** : **30**  
**No. of samples analysed** : **23**

**Page** : 1 of 26  
**Laboratory** : Environmental Division Sydney  
**Contact** : Customer Services ES  
**Address** : 277-289 Woodpark Road Smithfield NSW Australia 2164  
**Telephone** : +61-2-8784 8555  
**Date Samples Received** : 29-Aug-2023 09:30  
**Date Analysis Commenced** : 31-Aug-2023  
**Issue Date** : 06-Sep-2023 09:50



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

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             |
|-----------------|-----------------------------|------------------------------------|
| Ankit Joshi     | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjjar | Organic Coordinator         | Sydney Organics, Smithfield, NSW   |
| Evie Sidarta    | Inorganic Chemist           | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini  | LCMS Coordinator            | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini  | LCMS Coordinator            | Sydney Organics, Smithfield, NSW   |



## General Comments

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

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

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

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

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

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

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

LOR = Limit of reporting

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

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP202 :Particular samples required dilution due to sample matrix. LOR values have been adjusted accordingly.
- EP202: Poor matrix spike recovery has been detected due to sample matrix interferences.
- 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.



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|----------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                    |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                       |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 13.9                  | 24.8                  | 7.9                   | 13.2                  | 6.7                   |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                       |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | ----                  | ----                  | <5                    | ----                  | ----                  |
| Barium                                             | 7440-39-3  | 10   | mg/kg | ----                  | ----                  | 220                   | ----                  | ----                  |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | ----                  | ----                  | <1                    | ----                  | ----                  |
| Boron                                              | 7440-42-8  | 50   | mg/kg | ----                  | ----                  | <50                   | ----                  | ----                  |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | ----                  | ----                  | <1                    | ----                  | ----                  |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | ----                  | ----                  | 122                   | ----                  | ----                  |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | ----                  | ----                  | 34                    | ----                  | ----                  |
| Copper                                             | 7440-50-8  | 5    | mg/kg | ----                  | ----                  | 41                    | ----                  | ----                  |
| Lead                                               | 7439-92-1  | 5    | mg/kg | ----                  | ----                  | 6                     | ----                  | ----                  |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | ----                  | ----                  | 1120                  | ----                  | ----                  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | ----                  | ----                  | 100                   | ----                  | ----                  |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | ----                  | ----                  | <5                    | ----                  | ----                  |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | ----                  | ----                  | 122                   | ----                  | ----                  |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | ----                  | ----                  | 59                    | ----                  | ----                  |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                       |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | ----                  | ----                  | <0.1                  | ----                  | ----                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                       |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                           |                          |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                       |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                       |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>      |                          |      |       |                       |                       |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                               | 122-88-3                 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2.4-DB                                                    | 94-82-6                  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                  |            |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|------------------------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                             |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                         | CAS Number | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                                  |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP020A: Phenoxyacetic Acid Herbicides by LCMS - Continued</b> |            |      |       |                       |                       |                       |                       |                       |
| Dicamba                                                          | 1918-00-9  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Mecoprop                                                         | 93-65-2    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| MCPA                                                             | 94-74-6    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4-DP                                                           | 120-36-5   | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4-D                                                            | 94-75-7    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Triclopyr                                                        | 55335-06-3 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4,5-TP (Silvex)                                                | 93-72-1    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4,5-T                                                          | 93-76-5    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| MCPB                                                             | 94-81-5    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Picloram                                                         | 1918-02-1  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Clopyralid                                                       | 1702-17-6  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Fluroxypyr                                                       | 69377-81-7 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                |            |      |       |                       |                       |                       |                       |                       |
| Dibromo-DDE                                                      | 21655-73-2 | 0.05 | %     | 77.4                  | 75.9                  | 84.0                  | 94.2                  | 104                   |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>              |            |      |       |                       |                       |                       |                       |                       |
| DEF                                                              | 78-48-8    | 0.05 | %     | 73.2                  | 74.5                  | 86.9                  | 106                   | 104                   |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>            |            |      |       |                       |                       |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                                   | 19719-28-9 | 0.02 | %     | ----                  | 53.3                  | 66.9                  | 65.6                  | ----                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|----------------------------------------------------|------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                    |            |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                         |                         |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 8.0                     | 9.8                     | 17.9                  | 12.4                  | 10.2                  |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                         |                         |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | ----                    | ----                    | <5                    | <5                    | <5                    |
| Barium                                             | 7440-39-3  | 10   | mg/kg | ----                    | ----                    | 90                    | 90                    | 120                   |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | ----                    | ----                    | 1                     | <1                    | <1                    |
| Boron                                              | 7440-42-8  | 50   | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | ----                    | ----                    | <1                    | <1                    | <1                    |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | ----                    | ----                    | 86                    | 173                   | 76                    |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | ----                    | ----                    | 31                    | 23                    | 30                    |
| Copper                                             | 7440-50-8  | 5    | mg/kg | ----                    | ----                    | 28                    | 25                    | 29                    |
| Lead                                               | 7439-92-1  | 5    | mg/kg | ----                    | ----                    | 11                    | 12                    | 13                    |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | ----                    | ----                    | 335                   | 537                   | 1040                  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | ----                    | ----                    | 52                    | 52                    | 40                    |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | ----                    | ----                    | <5                    | <5                    | <5                    |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | ----                    | ----                    | 91                    | 122                   | 81                    |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | ----                    | ----                    | 288                   | 276                   | 63                    |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                         |                         |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | ----                    | ----                    | <0.1                  | <0.1                  | <0.1                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                         |                         |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|-----------------------------------------------------------|--------------------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                           |                          |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                         |                         |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                         |                         |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                         |                         |                       |                       |                       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                                        |                   |     |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                         |                         |                       |                       |                       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(g.h.i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | ----                    | ----                    | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | ----                    | ----                    | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                         |                         |                       |                       |                       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                         |                         |                       |                       |                       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|------------------------------------------------------|-------------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                      |                   |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                         |                         |                       |                       |                       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | ----                    | ----                    | <0.2                  | <0.2                  | <0.2                  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | ----                    | ----                    | <0.2                  | <0.2                  | <0.2                  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | ----                    | ----                    | <1                    | <1                    | <1                    |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                         |                         |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                         |                         |                       |                       |                       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 104                     | 76.3                    | 89.4                  | 113                   | 109                   |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                         |                         |                       |                       |                       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 108                     | 78.6                    | 85.0                  | 119                   | 108                   |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                         |                         |                       |                       |                       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | ----                    | ----                    | 83.9                  | 86.4                  | 87.3                  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | ----                    | ----                    | 90.1                  | 96.3                  | 87.5                  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | ----                    | ----                    | 69.1                  | 54.7                  | 51.8                  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                         |                         |                       |                       |                       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | ----                    | ----                    | 95.2                  | 102                   | 94.2                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                       |            |      |      | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|-------------------------------------------------------|------------|------|------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                  |            |      |      | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                              | CAS Number | LOR  | Unit | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                       |            |      |      | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP075(SIM)T: PAH Surrogates - Continued</b>        |            |      |      |                         |                         |                       |                       |                       |
| Anthracene-d10                                        | 1719-06-8  | 0.5  | %    | ----                    | ----                    | 98.7                  | 92.8                  | 90.6                  |
| 4-Terphenyl-d14                                       | 1718-51-0  | 0.5  | %    | ----                    | ----                    | 105                   | 101                   | 100                   |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                 |            |      |      |                         |                         |                       |                       |                       |
| 1,2-Dichloroethane-D4                                 | 17060-07-0 | 0.2  | %    | ----                    | ----                    | 85.1                  | 92.8                  | 79.1                  |
| Toluene-D8                                            | 2037-26-5  | 0.2  | %    | ----                    | ----                    | 91.8                  | 92.7                  | 78.8                  |
| 4-Bromofluorobenzene                                  | 460-00-4   | 0.2  | %    | ----                    | ----                    | 73.0                  | 101                   | 84.0                  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |      |      |                         |                         |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 0.02 | %    | 74.1                    | 57.9                    | ----                  | ----                  | ----                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|----------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                    |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                       |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 8.8                   | 14.0                  | 9.2                   | 15.2                  | 9.9                   |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                       |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                    | <5                    | <5                    | 29                    | <5                    |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 340                   | 310                   | 80                    | 70                    | 80                    |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | <1                    | 2                     | <1                    | <1                    | <1                    |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                    | <1                    | <1                    | <1                    | <1                    |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 115                   | 294                   | 114                   | 163                   | 26                    |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 64                    | 70                    | 18                    | 25                    | 10                    |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 29                    | 41                    | 16                    | 31                    | 9                     |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 15                    | 29                    | 8                     | 10                    | 6                     |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 1520                  | 1440                  | 451                   | 370                   | 405                   |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 69                    | 89                    | 35                    | 63                    | 15                    |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                    | <5                    | <5                    | <5                    | <5                    |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 103                   | 137                   | 66                    | 135                   | 28                    |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 62                    | 1610                  | 100                   | 94                    | 84                    |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                       |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                       |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                           |                          |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                       |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                       |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                       |                       |                       |                       |                       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                                        |                   |     |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                       |                       |                       |                       |                       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(g,h,i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                       |                       |                       |                       |                       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                       |                       |                       |                       |                       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------------|-------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                      |                   |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                       |                       |                       |                       |                       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                    | <1                    | <1                    | <1                    | <1                    |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                       |                       |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                       |                       |                       |                       |                       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 91.4                  | 81.0                  | 79.0                  | 107                   | 92.9                  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                       |                       |                       |                       |                       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 75.3                  | 71.8                  | 80.7                  | 107                   | 91.1                  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                       |                       |                       |                       |                       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 82.7                  | 95.0                  | 84.7                  | 89.8                  | 96.7                  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 89.2                  | 80.6                  | 93.2                  | 90.5                  | 88.4                  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 52.6                  | 52.5                  | 50.2                  | 50.2                  | 50.1                  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                       |                       |                       |                       |                       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 94.9                  | 101                   | 98.2                  | 98.1                  | 99.9                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

| Sub-Matrix: SOIL<br>(Matrix: SOIL)             |            |      |      | Sample ID     | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------|------------|------|------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                           |            |      |      |               | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                       | CAS Number | LOR  | Unit | ES2329175-015 | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |                       |
|                                                |            |      |      | Result        | Result                | Result                | Result                | Result                |                       |
| EP075(SIM)T: PAH Surrogates - Continued        |            |      |      |               |                       |                       |                       |                       |                       |
| Anthracene-d10                                 | 1719-06-8  | 0.5  | %    | 95.8          | 96.1                  | 93.7                  | 92.9                  | 88.3                  |                       |
| 4-Terphenyl-d14                                | 1718-51-0  | 0.5  | %    | 105           | 104                   | 102                   | 102                   | 100                   |                       |
| EP080S: TPH(V)/BTEX Surrogates                 |            |      |      |               |                       |                       |                       |                       |                       |
| 1,2-Dichloroethane-D4                          | 17060-07-0 | 0.2  | %    | 78.3          | 72.0                  | 89.8                  | 84.5                  | 90.5                  |                       |
| Toluene-D8                                     | 2037-26-5  | 0.2  | %    | 75.3          | 69.7                  | 87.9                  | 75.1                  | 88.9                  |                       |
| 4-Bromofluorobenzene                           | 460-00-4   | 0.2  | %    | 82.0          | 76.4                  | 93.4                  | 86.4                  | 93.8                  |                       |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |               |                       |                       |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | 66.6          | ----                  | 71.7                  | ----                  | ----                  |                       |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|----------------------------------------------------|------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                    |            |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                         |                         |                         |                         |
| Moisture Content                                   | ----       | 1.0  | %     | 13.3                  | 19.7                    | 13.7                    | 8.5                     | 18.3                    |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                         |                         |                         |                         |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                    | <5                      | <5                      | <5                      | <5                      |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 250                   | 350                     | 80                      | 270                     | 230                     |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | <1                    | <1                      | <1                      | <1                      | <1                      |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                    | <1                      | <1                      | 2                       | <1                      |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 72                    | 108                     | 238                     | 131                     | 92                      |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 26                    | 50                      | 20                      | 48                      | 32                      |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 33                    | 48                      | 62                      | 42                      | 47                      |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 13                    | <5                      | <5                      | 6                       | 13                      |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 1220                  | 1670                    | 380                     | 1640                    | 904                     |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 47                    | 129                     | 120                     | 112                     | 87                      |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                    | <5                      | <5                      | <5                      | <5                      |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 68                    | 156                     | 194                     | 131                     | 102                     |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 473                   | 70                      | 43                      | 76                      | 98                      |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                         |                         |                         |                         |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                         |                         |                         |                         |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                           |                          |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                         |                         |                         |                         |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4.4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4.4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                         |                         |                         |                         |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                       |                         |                         |                         |                         |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                                        |                   |     |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                       |                         |                         |                         |                         |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(g,h,i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>            | <b>0.6</b>              | <b>0.6</b>              | <b>0.6</b>              | <b>0.6</b>              |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>            | <b>1.2</b>              | <b>1.2</b>              | <b>1.2</b>              | <b>1.2</b>              |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                       |                         |                         |                         |                         |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                       |                         |                         |                         |                         |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <b>100</b>            | <100                    | <100                    | <100                    | <100                    |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <b>100</b>            | <50                     | <50                     | <50                     | <50                     |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------------|-------------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                      |                   |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                       |                         |                         |                         |                         |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                    | <1                      | <1                      | <1                      | <1                      |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                       |                         |                         |                         |                         |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                       |                         |                         |                         |                         |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 103                   | 93.0                    | 92.9                    | 109                     | 102                     |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                       |                         |                         |                         |                         |
| DEF                                                  | 78-48-8           | 0.05 | %     | 99.6                  | 88.6                    | 90.0                    | 98.8                    | 102                     |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                       |                         |                         |                         |                         |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 102                   | 94.7                    | 83.9                    | 98.5                    | 91.1                    |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 98.1                  | 103                     | 90.8                    | 91.8                    | 91.2                    |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 53.9                  | 50.0                    | 48.1                    | 50.4                    | 50.6                    |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                       |                         |                         |                         |                         |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 96.2                  | 99.8                    | 101                     | 99.1                    | 102                     |



Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)             |            |      |      | Sample ID     | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------|------------|------|------|---------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                           |            |      |      |               | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                       | CAS Number | LOR  | Unit | ES2329175-020 | ES2329175-021         | ES2329175-022           | ES2329175-023           | ES2329175-024           |                         |
|                                                |            |      |      | Result        | Result                | Result                  | Result                  | Result                  |                         |
| EP075(SIM)T: PAH Surrogates - Continued        |            |      |      |               |                       |                         |                         |                         |                         |
| Anthracene-d10                                 | 1719-06-8  | 0.5  | %    | 93.6          | 90.9                  | 93.8                    | 91.1                    | 93.3                    |                         |
| 4-Terphenyl-d14                                | 1718-51-0  | 0.5  | %    | 104           | 104                   | 106                     | 104                     | 106                     |                         |
| EP080S: TPH(V)/BTEX Surrogates                 |            |      |      |               |                       |                         |                         |                         |                         |
| 1,2-Dichloroethane-D4                          | 17060-07-0 | 0.2  | %    | 83.4          | 79.4                  | 76.3                    | 71.1                    | 75.1                    |                         |
| Toluene-D8                                     | 2037-26-5  | 0.2  | %    | 83.8          | 78.9                  | 75.9                    | 68.2                    | 75.4                    |                         |
| 4-Bromofluorobenzene                           | 460-00-4   | 0.2  | %    | 89.2          | 83.5                  | 83.8                    | 80.3                    | 84.0                    |                         |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |               |                       |                         |                         |                         |                         |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | ----          | ----                  | 58.9                    | ----                    | ----                    |                         |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|----------------------------------------------------|------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                    |            |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                         |                         |                             |       |       |
| Moisture Content                                   | ----       | 1.0  | %     | 27.4                    | 7.8                     | 13.4                        | ----  | ----  |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                         |                         |                             |       |       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                      | <5                      | 9                           | ----  | ----  |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 260                     | 30                      | 40                          | ----  | ----  |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | 1                       | <1                      | <1                          | ----  | ----  |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                     | <50                     | <50                         | ----  | ----  |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                      | <1                      | <1                          | ----  | ----  |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 106                     | 24                      | 155                         | ----  | ----  |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 29                      | 10                      | 3                           | ----  | ----  |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 59                      | 10                      | 42                          | ----  | ----  |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 10                      | 7                       | <5                          | ----  | ----  |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 591                     | 73                      | 41                          | ----  | ----  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 97                      | 16                      | 43                          | ----  | ----  |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                      | <5                      | <5                          | ----  | ----  |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 116                     | 32                      | 152                         | ----  | ----  |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 100                     | 17                      | 12                          | ----  | ----  |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                         |                         |                             |       |       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                    | <0.1                    | <0.1                        | ----  | ----  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                         |                         |                             |       |       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|-----------------------------------------------------------|--------------------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                           |                          |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                         |                         |                             |       |       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4.4`-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4.4`-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                         |                         |                             |       |       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                         |                         |                             |       |       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                                        |                   |     |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                         |                         |                             |       |       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(g.h.i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>              | <b>0.6</b>              | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>              | <b>1.2</b>              | ----                        | ----  | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                         |                         |                             |       |       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                         |                         |                             |       |       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|------------------------------------------------------|-------------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                      |                   |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                         |                         |                             |       |       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                    | <0.2                    | ----                        | ----  | ----  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                    | <0.2                    | ----                        | ----  | ----  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                      | <1                      | ----                        | ----  | ----  |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                         |                         |                             |       |       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                         |                         |                             |       |       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 128                     | 82.8                    | 111                         | ----  | ----  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                         |                         |                             |       |       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 123                     | 79.1                    | 105                         | ----  | ----  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                         |                         |                             |       |       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 92.1                    | 83.8                    | ----                        | ----  | ----  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 99.6                    | 89.0                    | ----                        | ----  | ----  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 50.7                    | 54.5                    | ----                        | ----  | ----  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                         |                         |                             |       |       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 104                     | 93.8                    | ----                        | ----  | ----  |
| Anthracene-d10                                       | 1719-06-8         | 0.5  | %     | 89.7                    | 94.1                    | ----                        | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                       |            |      |      | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|-------------------------------------------------------|------------|------|------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                  |            |      |      | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                              | CAS Number | LOR  | Unit | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
| Result                                                |            |      |      | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP075(SIM)T: PAH Surrogates - Continued</b>        |            |      |      |                         |                         |                             |       |       |
| 4-Terphenyl-d14                                       | 1718-51-0  | 0.5  | %    | 103                     | 109                     | ----                        | ----  | ----  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                 |            |      |      |                         |                         |                             |       |       |
| 1,2-Dichloroethane-D4                                 | 17060-07-0 | 0.2  | %    | 78.5                    | 81.7                    | ----                        | ----  | ----  |
| Toluene-D8                                            | 2037-26-5  | 0.2  | %    | 77.5                    | 79.2                    | ----                        | ----  | ----  |
| 4-Bromofluorobenzene                                  | 460-00-4   | 0.2  | %    | 78.7                    | 84.6                    | ----                        | ----  | ----  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |      |      |                         |                         |                             |       |       |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 0.02 | %    | 98.7                    | 68.2                    | ----                        | ----  | ----  |



## Surrogate Control Limits

| Sub-Matrix: SOIL                                      |            | Recovery Limits (%) |      |
|-------------------------------------------------------|------------|---------------------|------|
| Compound                                              | CAS Number | Low                 | High |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>     |            |                     |      |
| Dibromo-DDE                                           | 21655-73-2 | 49                  | 147  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>   |            |                     |      |
| DEF                                                   | 78-48-8    | 35                  | 143  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>      |            |                     |      |
| Phenol-d6                                             | 13127-88-3 | 63                  | 123  |
| 2-Chlorophenol-D4                                     | 93951-73-6 | 66                  | 122  |
| 2,4,6-Tribromophenol                                  | 118-79-6   | 40                  | 138  |
| <b>EP075(SIM)T: PAH Surrogates</b>                    |            |                     |      |
| 2-Fluorobiphenyl                                      | 321-60-8   | 70                  | 122  |
| Anthracene-d10                                        | 1719-06-8  | 66                  | 128  |
| 4-Terphenyl-d14                                       | 1718-51-0  | 65                  | 129  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                 |            |                     |      |
| 1,2-Dichloroethane-D4                                 | 17060-07-0 | 63                  | 125  |
| Toluene-D8                                            | 2037-26-5  | 67                  | 124  |
| 4-Bromofluorobenzene                                  | 460-00-4   | 66                  | 131  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |                     |      |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 45                  | 139  |



## QUALITY CONTROL REPORT

Work Order : **ES2329175**

Page : 1 of 17

Client : **PREMISE NSW Pty Ltd**

Contact : **B STUART**

Address : 154 Peisley St,  
Orange 2800

Telephone : ----

Project : 123050 RRD

Order number : ----

C-O-C number : ----

Sampler : B. Searl

Site : ----

Quote number : EN/222

No. of samples received : 30

No. of samples analysed : 23

Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 29-Aug-2023

Date Analysis Commenced : 31-Aug-2023

Issue Date : 06-Sep-2023



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             |
|----------------|-----------------------------|------------------------------------|
| Ankit Joshi    | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator         | Sydney Organics, Smithfield, NSW   |
| Evie Sidarta   | Inorganic Chemist           | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini | LCMS Coordinator            | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini | LCMS Coordinator            | Sydney Organics, Smithfield, NSW   |



## General Comments

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

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

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

Key :  
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot  
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
 LOR = Limit of reporting  
 RPD = Relative Percentage Difference  
 # = Indicates failed QC

## Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

|                                                                 |                    |                   |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|-----------------------------------------------------------------|--------------------|-------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                            | Sample ID          | Method: Compound  | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5273219)</b> |                    |                   |            |                                   |       |                 |                  |         |                    |
| ES2329150-001                                                   | Anonymous          | EG005T: Beryllium | 7440-41-7  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Cadmium   | 7440-43-9  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Barium    | 7440-39-3  | 10                                | mg/kg | 20              | 30               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Chromium  | 7440-47-3  | 2                                 | mg/kg | 8               | 14               | 49.1    | No Limit           |
|                                                                 |                    | EG005T: Cobalt    | 7440-48-4  | 2                                 | mg/kg | 5               | 5                | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Nickel    | 7440-02-0  | 2                                 | mg/kg | 3               | 15               | 126     | No Limit           |
|                                                                 |                    | EG005T: Arsenic   | 7440-38-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Copper    | 7440-50-8  | 5                                 | mg/kg | 7               | 9                | 33.2    | No Limit           |
|                                                                 |                    | EG005T: Lead      | 7439-92-1  | 5                                 | mg/kg | 10              | 22               | 76.5    | No Limit           |
|                                                                 |                    | EG005T: Manganese | 7439-96-5  | 5                                 | mg/kg | 58              | 58               | 0.0     | 0% - 50%           |
|                                                                 |                    | EG005T: Selenium  | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Vanadium  | 7440-62-2  | 5                                 | mg/kg | 17              | 19               | 13.2    | No Limit           |
|                                                                 |                    | EG005T: Zinc      | 7440-66-6  | 5                                 | mg/kg | 11              | 16               | 38.5    | No Limit           |
|                                                                 |                    | EG005T: Boron     | 7440-42-8  | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| ES2329175-018                                                   | J7 Sample ID: JS_7 | EG005T: Beryllium | 7440-41-7  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Cadmium   | 7440-43-9  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Barium    | 7440-39-3  | 10                                | mg/kg | 70              | 60               | 0.0     | No Limit           |
|                                                                 |                    | EG005T: Chromium  | 7440-47-3  | 2                                 | mg/kg | 163             | 163              | 0.0     | 0% - 20%           |
|                                                                 |                    | EG005T: Cobalt    | 7440-48-4  | 2                                 | mg/kg | 25              | 19               | 26.5    | 0% - 50%           |
|                                                                 |                    | EG005T: Nickel    | 7440-02-0  | 2                                 | mg/kg | 63              | 71               | 11.8    | 0% - 20%           |
|                                                                 |                    | EG005T: Arsenic   | 7440-38-2  | 5                                 | mg/kg | 29              | 15               | 63.3    | No Limit           |
|                                                                 |                    | EG005T: Copper    | 7440-50-8  | 5                                 | mg/kg | 31              | 33               | 5.4     | No Limit           |
|                                                                 |                    | EG005T: Lead      | 7439-92-1  | 5                                 | mg/kg | 10              | 8                | 15.7    | No Limit           |
|                                                                 |                    | EG005T: Manganese | 7439-96-5  | 5                                 | mg/kg | 370             | 322              | 13.9    | 0% - 20%           |





| Sub-Matrix: SOIL                                                     |                      |                         |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|----------------------------------------------------------------------|----------------------|-------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                 | Sample ID            | Method: Compound        | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5273219) - continued |                      |                         |            |                                   |       |                 |                  |         |                    |
| ES2329175-018                                                        | J7 Sample ID: JS_7   | EG005T: Selenium        | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Vanadium        | 7440-62-2  | 5                                 | mg/kg | 135             | 122              | 9.9     | 0% - 20%           |
|                                                                      |                      | EG005T: Zinc            | 7440-66-6  | 5                                 | mg/kg | 94              | 90               | 5.3     | 0% - 50%           |
|                                                                      |                      | EG005T: Boron           | 7440-42-8  | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5274223)             |                      |                         |            |                                   |       |                 |                  |         |                    |
| EP2311633-001                                                        | Anonymous            | EG005T: Beryllium       | 7440-41-7  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Cadmium         | 7440-43-9  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Barium          | 7440-39-3  | 10                                | mg/kg | 50              | 50               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Chromium        | 7440-47-3  | 2                                 | mg/kg | 47              | 48               | 0.0     | 0% - 20%           |
|                                                                      |                      | EG005T: Cobalt          | 7440-48-4  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Nickel          | 7440-02-0  | 2                                 | mg/kg | 3               | 3                | 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 | 26              | 27               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Lead            | 7439-92-1  | 5                                 | mg/kg | 12              | 12               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Manganese       | 7439-96-5  | 5                                 | mg/kg | 44              | 43               | 2.4     | No Limit           |
|                                                                      |                      | EG005T: Selenium        | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Vanadium        | 7440-62-2  | 5                                 | mg/kg | 18              | 18               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Zinc            | 7440-66-6  | 5                                 | mg/kg | 101             | 106              | 4.5     | 0% - 20%           |
| EG005T: Boron                                                        | 7440-42-8            | 50                      | mg/kg      | <50                               | <50   | 0.0             | No Limit         |         |                    |
| ES2329175-005                                                        | S5 Sample ID: SS_5   | EG005T: Beryllium       | 7440-41-7  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Cadmium         | 7440-43-9  | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Barium          | 7440-39-3  | 10                                | mg/kg | 220             | 210              | 0.0     | 0% - 20%           |
|                                                                      |                      | EG005T: Chromium        | 7440-47-3  | 2                                 | mg/kg | 122             | 118              | 3.2     | 0% - 20%           |
|                                                                      |                      | EG005T: Cobalt          | 7440-48-4  | 2                                 | mg/kg | 34              | 32               | 5.8     | 0% - 50%           |
|                                                                      |                      | EG005T: Nickel          | 7440-02-0  | 2                                 | mg/kg | 100             | 87               | 13.5    | 0% - 20%           |
|                                                                      |                      | EG005T: Arsenic         | 7440-38-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Copper          | 7440-50-8  | 5                                 | mg/kg | 41              | 37               | 8.8     | No Limit           |
|                                                                      |                      | EG005T: Lead            | 7439-92-1  | 5                                 | mg/kg | 6               | 6                | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Manganese       | 7439-96-5  | 5                                 | mg/kg | 1120            | 1040             | 7.3     | 0% - 20%           |
|                                                                      |                      | EG005T: Selenium        | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                      |                      | EG005T: Vanadium        | 7440-62-2  | 5                                 | mg/kg | 122             | 117              | 4.0     | 0% - 20%           |
|                                                                      |                      | EG005T: Zinc            | 7440-66-6  | 5                                 | mg/kg | 59              | 57               | 3.5     | 0% - 50%           |
| EG005T: Boron                                                        | 7440-42-8            | 50                      | mg/kg      | <50                               | <50   | 0.0             | No Limit         |         |                    |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5273223)        |                      |                         |            |                                   |       |                 |                  |         |                    |
| ES2329150-004                                                        | Anonymous            | EA055: Moisture Content | ----       | 0.1                               | %     | 9.0             | 8.5              | 6.2     | No Limit           |
| ES2329175-021                                                        | J10 Sample ID: JS_10 | EA055: Moisture Content | ----       | 0.1                               | %     | 19.7            | 16.9             | 15.3    | 0% - 50%           |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5274226)        |                      |                         |            |                                   |       |                 |                  |         |                    |
| EP2311633-003                                                        | Anonymous            | EA055: Moisture Content | ----       | 0.1                               | %     | 16.4            | 13.6             | 18.9    | 0% - 50%           |
| ES2329237-003                                                        | Anonymous            | EA055: Moisture Content | ----       | 0.1                               | %     | 9.2             | 9.0              | 2.8     | No Limit           |



| Sub-Matrix: SOIL                                                     |                    |                                |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|----------------------------------------------------------------------|--------------------|--------------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                 | Sample ID          | Method: Compound               | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5275263)</b> |                    |                                |            |                                   |       |                 |                  |         |                    |
| ES2328907-024                                                        | Anonymous          | EA055: Moisture Content        | ----       | 0.1                               | %     | 15.0            | 15.0             | 0.0     | 0% - 20%           |
| ES2329206-026                                                        | Anonymous          | EA055: Moisture Content        | ----       | 0.1                               | %     | 16.7            | 17.1             | 2.4     | 0% - 20%           |
| <b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5273220)</b>   |                    |                                |            |                                   |       |                 |                  |         |                    |
| ES2329150-001                                                        | Anonymous          | EG035T: Mercury                | 7439-97-6  | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| ES2329175-018                                                        | J7 Sample ID: JS_7 | EG035T: Mercury                | 7439-97-6  | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5274222)</b>   |                    |                                |            |                                   |       |                 |                  |         |                    |
| EP2311633-001                                                        | Anonymous          | EG035T: Mercury                | 7439-97-6  | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| ES2329175-005                                                        | S5 Sample ID: SS_5 | EG035T: Mercury                | 7439-97-6  | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EP068A: Organochlorine Pesticides (OC) (QC Lot: 5269105)</b>      |                    |                                |            |                                   |       |                 |                  |         |                    |
| ES2329175-018                                                        | J7 Sample ID: JS_7 | 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               | 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           |
| ES2329175-012                                                        | J1 Sample ID: JS_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               | 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           |



| Sub-Matrix: SOIL                                                     |                    |                                |            | Laboratory Duplicate (DUP) Report |         |                 |                  |         |                    |
|----------------------------------------------------------------------|--------------------|--------------------------------|------------|-----------------------------------|---------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                 | Sample ID          | Method: Compound               | CAS Number | LOR                               | Unit    | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP068A: Organochlorine Pesticides (OC) (QC Lot: 5269105) - continued |                    |                                |            |                                   |         |                 |                  |         |                    |
| ES2329175-012                                                        | J1 Sample ID: JS_1 | 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           |
| EP068A: Organochlorine Pesticides (OC) (QC Lot: 5270501)             |                    |                                |            |                                   |         |                 |                  |         |                    |
| ES2329264-001                                                        | Anonymous          | 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               | 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               |
| EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5269105)           |                    |                                |            |                                   |         |                 |                  |         |                    |
| ES2329175-018                                                        | J7 Sample ID: JS_7 | 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           |



| Sub-Matrix: SOIL                                                       |                    |                                                            |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|------------------------------------------------------------------------|--------------------|------------------------------------------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                   | Sample ID          | Method: Compound                                           | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5269105) - continued |                    |                                                            |            |                                   |       |                 |                  |         |                    |
| ES2329175-018                                                          | J7 Sample ID: JS_7 | 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           |
| ES2329175-012                                                          | J1 Sample ID: JS_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           |
|                                                                        |                    | EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5270501) |            |                                   |       |                 |                  |         |                    |
| ES2329264-001                                                          | Anonymous          | 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           |



| Sub-Matrix: SOIL                                                       |                    |                                                     |                    | Laboratory Duplicate (DUP) Report |         |                 |                  |         |                    |
|------------------------------------------------------------------------|--------------------|-----------------------------------------------------|--------------------|-----------------------------------|---------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                   | Sample ID          | Method: Compound                                    | CAS Number         | LOR                               | Unit    | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5270501) - continued |                    |                                                     |                    |                                   |         |                 |                  |         |                    |
| ES2329264-001                                                          | Anonymous          | 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: Polynuclear Aromatic Hydrocarbons (QC Lot: 5269107)       |                    |                                                     |                    |                                   |         |                 |                  |         |                    |
| ES2329175-018                                                          | J7 Sample ID: JS_7 | 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           |
|                                                                        |                    | ES2329175-012                                       | J1 Sample ID: JS_1 | EP075(SIM): Naphthalene           | 91-20-3 | 0.5             | mg/kg            | <0.5    | <0.5               |
| 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           |



| Sub-Matrix: SOIL                                                                  |                      |                                                     |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                              | Sample ID            | Method: Compound                                    | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5269107) - continued      |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-012                                                                     | J1 Sample ID: JS_1   | 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           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5269106)                         |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-018                                                                     | J7 Sample ID: JS_7   | 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           |
| ES2329175-012                                                                     | J1 Sample ID: JS_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 Petroleum Hydrocarbons (QC Lot: 5270054)                         |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-012                                                                     | J1 Sample ID: JS_1   | EP080: C6 - C9 Fraction                             | ----       | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| ES2329175-022                                                                     | J11 Sample ID: JS_11 | EP080: C6 - C9 Fraction                             | ----       | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5269106) |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-018                                                                     | J7 Sample ID: JS_7   | 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           |
| ES2329175-012                                                                     | J1 Sample ID: JS_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           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5270054) |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-012                                                                     | J1 Sample ID: JS_1   | EP080: C6 - C10 Fraction                            | C6_C10     | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| ES2329175-022                                                                     | J11 Sample ID: JS_11 | EP080: C6 - C10 Fraction                            | C6_C10     | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 5270054)                                                    |                      |                                                     |            |                                   |       |                 |                  |         |                    |
| ES2329175-012                                                                     | J1 Sample ID: JS_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   |                                   |       |                 |                  |         |                    |



| Sub-Matrix: <b>SOIL</b>                                         |                      |                                    |            | 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: 5270054) - continued                      |                      |                                    |            |                                   |       |                 |                  |         |                    |
| ES2329175-012                                                   | J1 Sample ID: JS_1   | 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           |
| ES2329175-022                                                   | J11 Sample ID: JS_11 | 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           |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QC Lot: 5269784) |                      |                                    |            |                                   |       |                 |                  |         |                    |
| EM2315418-001                                                   | Anonymous            | EP202: 4-Chlorophenoxy acetic acid | 122-88-3   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-DB                      | 94-82-6    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Dicamba                     | 1918-00-9  | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Mecoprop                    | 93-65-2    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: MCPA                        | 94-74-6    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-DP                      | 120-36-5   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-D                       | 94-75-7    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Triclopyr                   | 55335-06-3 | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4,5-TP (Silvex)           | 93-72-1    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4,5-T                     | 93-76-5    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: MCPB                        | 94-81-5    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Picloram                    | 1918-02-1  | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Clopyralid                  | 1702-17-6  | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Fluroxypyr                  | 69377-81-7 | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
| ES2329175-015                                                   | J4 Sample ID: JS_4   | EP202: 4-Chlorophenoxy acetic acid | 122-88-3   | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-DB                      | 94-82-6    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Dicamba                     | 1918-00-9  | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Mecoprop                    | 93-65-2    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: MCPA                        | 94-74-6    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-DP                      | 120-36-5   | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4-D                       | 94-75-7    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Triclopyr                   | 55335-06-3 | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4,5-TP (Silvex)           | 93-72-1    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: 2,4,5-T                     | 93-76-5    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: MCPB                        | 94-81-5    | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Picloram                    | 1918-02-1  | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Clopyralid                  | 1702-17-6  | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                 |                      | EP202: Fluroxypyr                  | 69377-81-7 | 0.02                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |



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) Report | Laboratory Control Spike (LCS) Report |                    |                       |      |
|------------------------------------------------------------|------------|-----|-------|--------------------------|---------------------------------------|--------------------|-----------------------|------|
|                                                            |            |     |       |                          | Spike Concentration                   | Spike Recovery (%) | Acceptable Limits (%) |      |
| Method: Compound                                           | CAS Number | LOR | Unit  | Result                   |                                       | LCS                | Low                   | High |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5273219)    |            |     |       |                          |                                       |                    |                       |      |
| EG005T: Arsenic                                            | 7440-38-2  | 5   | mg/kg | <5                       | 121.1 mg/kg                           | 111                | 88.0                  | 113  |
| EG005T: Barium                                             | 7440-39-3  | 10  | mg/kg | <10                      | 90.5 mg/kg                            | 114                | 65.0                  | 136  |
| EG005T: Beryllium                                          | 7440-41-7  | 1   | mg/kg | <1                       | 0.5 mg/kg                             | 130                | 70.0                  | 130  |
| EG005T: Boron                                              | 7440-42-8  | 50  | mg/kg | <50                      | ----                                  | ----               | ----                  | ---- |
| EG005T: Cadmium                                            | 7440-43-9  | 1   | mg/kg | <1                       | 0.74 mg/kg                            | 130                | 70.0                  | 130  |
| EG005T: Chromium                                           | 7440-47-3  | 2   | mg/kg | <2                       | 19.6 mg/kg                            | 124                | 68.0                  | 132  |
| EG005T: Cobalt                                             | 7440-48-4  | 2   | mg/kg | <2                       | 10.4 mg/kg                            | 102                | 83.0                  | 117  |
| EG005T: Copper                                             | 7440-50-8  | 5   | mg/kg | <5                       | 52.9 mg/kg                            | 111                | 89.0                  | 111  |
| EG005T: Lead                                               | 7439-92-1  | 5   | mg/kg | <5                       | 60.8 mg/kg                            | 102                | 82.0                  | 119  |
| EG005T: Manganese                                          | 7439-96-5  | 5   | mg/kg | <5                       | 534 mg/kg                             | 112                | 83.0                  | 117  |
| EG005T: Nickel                                             | 7440-02-0  | 2   | mg/kg | <2                       | 15.3 mg/kg                            | 90.2               | 80.0                  | 120  |
| EG005T: Selenium                                           | 7782-49-2  | 5   | mg/kg | <5                       | ----                                  | ----               | ----                  | ---- |
| EG005T: Vanadium                                           | 7440-62-2  | 5   | mg/kg | <5                       | 58.6 mg/kg                            | 122                | 75.0                  | 125  |
| EG005T: Zinc                                               | 7440-66-6  | 5   | mg/kg | <5                       | 139.3 mg/kg                           | 102                | 66.0                  | 133  |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5274223)    |            |     |       |                          |                                       |                    |                       |      |
| EG005T: Arsenic                                            | 7440-38-2  | 5   | mg/kg | <5                       | 121.1 mg/kg                           | 107                | 88.0                  | 113  |
| EG005T: Barium                                             | 7440-39-3  | 10  | mg/kg | <10                      | 90.5 mg/kg                            | 117                | 65.0                  | 136  |
| EG005T: Beryllium                                          | 7440-41-7  | 1   | mg/kg | <1                       | 0.5 mg/kg                             | 130                | 70.0                  | 130  |
| EG005T: Boron                                              | 7440-42-8  | 50  | mg/kg | <50                      | ----                                  | ----               | ----                  | ---- |
| EG005T: Cadmium                                            | 7440-43-9  | 1   | mg/kg | <1                       | 0.74 mg/kg                            | 115                | 70.0                  | 130  |
| EG005T: Chromium                                           | 7440-47-3  | 2   | mg/kg | <2                       | 19.6 mg/kg                            | 120                | 68.0                  | 132  |
| EG005T: Cobalt                                             | 7440-48-4  | 2   | mg/kg | <2                       | 10.4 mg/kg                            | 104                | 83.0                  | 117  |
| EG005T: Copper                                             | 7440-50-8  | 5   | mg/kg | <5                       | 52.9 mg/kg                            | 111                | 89.0                  | 111  |
| EG005T: Lead                                               | 7439-92-1  | 5   | mg/kg | <5                       | 60.8 mg/kg                            | 119                | 82.0                  | 119  |
| EG005T: Manganese                                          | 7439-96-5  | 5   | mg/kg | <5                       | 534 mg/kg                             | 114                | 83.0                  | 117  |
| EG005T: Nickel                                             | 7440-02-0  | 2   | mg/kg | <2                       | 15.3 mg/kg                            | 106                | 80.0                  | 120  |
| EG005T: Selenium                                           | 7782-49-2  | 5   | mg/kg | <5                       | ----                                  | ----               | ----                  | ---- |
| EG005T: Vanadium                                           | 7440-62-2  | 5   | mg/kg | <5                       | 58.6 mg/kg                            | 121                | 75.0                  | 125  |
| EG005T: Zinc                                               | 7440-66-6  | 5   | mg/kg | <5                       | 139.3 mg/kg                           | 106                | 66.0                  | 133  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5273220) |            |     |       |                          |                                       |                    |                       |      |





| Sub-Matrix: SOIL                                                       |            |      |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                           |                                        |     |
|------------------------------------------------------------------------|------------|------|-------|-----------------------------|---------------------------------------|---------------------------|----------------------------------------|-----|
|                                                                        |            |      |       |                             | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%)<br>Low      High |     |
| Method: Compound                                                       | CAS Number | LOR  | Unit  | Result                      |                                       |                           |                                        |     |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5273220) - continued |            |      |       |                             |                                       |                           |                                        |     |
| EG035T: Mercury                                                        | 7439-97-6  | 0.1  | mg/kg | <0.1                        | 0.087 mg/kg                           | 124                       | 70.0                                   | 125 |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5274222)             |            |      |       |                             |                                       |                           |                                        |     |
| EG035T: Mercury                                                        | 7439-97-6  | 0.1  | mg/kg | <0.1                        | 0.087 mg/kg                           | 104                       | 70.0                                   | 125 |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 5269105)                |            |      |       |                             |                                       |                           |                                        |     |
| EP068: alpha-BHC                                                       | 319-84-6   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 81.5                      | 69.0                                   | 113 |
| EP068: Hexachlorobenzene (HCB)                                         | 118-74-1   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.8                      | 65.0                                   | 117 |
| EP068: beta-BHC                                                        | 319-85-7   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 87.5                      | 67.0                                   | 119 |
| EP068: gamma-BHC                                                       | 58-89-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 86.7                      | 68.0                                   | 116 |
| EP068: delta-BHC                                                       | 319-86-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 88.9                      | 65.0                                   | 117 |
| EP068: Heptachlor                                                      | 76-44-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 100                       | 67.0                                   | 115 |
| EP068: Aldrin                                                          | 309-00-2   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 86.7                      | 69.0                                   | 115 |
| EP068: Heptachlor epoxide                                              | 1024-57-3  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 91.0                      | 62.0                                   | 118 |
| EP068: trans-Chlordane                                                 | 5103-74-2  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 86.9                      | 63.0                                   | 117 |
| EP068: alpha-Endosulfan                                                | 959-98-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 85.4                      | 66.0                                   | 116 |
| EP068: cis-Chlordane                                                   | 5103-71-9  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 97.0                      | 64.0                                   | 116 |
| EP068: Dieldrin                                                        | 60-57-1    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 84.9                      | 66.0                                   | 116 |
| EP068: 4,4'-DDE                                                        | 72-55-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 83.9                      | 67.0                                   | 115 |
| EP068: Endrin                                                          | 72-20-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 99.9                      | 67.0                                   | 123 |
| EP068: beta-Endosulfan                                                 | 33213-65-9 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 85.8                      | 69.0                                   | 115 |
| EP068: 4,4'-DDD                                                        | 72-54-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 81.4                      | 69.0                                   | 121 |
| EP068: Endrin aldehyde                                                 | 7421-93-4  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.5                      | 56.0                                   | 120 |
| EP068: Endosulfan sulfate                                              | 1031-07-8  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 98.4                      | 62.0                                   | 124 |
| EP068: 4,4'-DDT                                                        | 50-29-3    | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 95.3                      | 66.0                                   | 120 |
| EP068: Endrin ketone                                                   | 53494-70-5 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 102                       | 64.0                                   | 122 |
| EP068: Methoxychlor                                                    | 72-43-5    | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 107                       | 54.0                                   | 130 |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 5270501)                |            |      |       |                             |                                       |                           |                                        |     |
| EP068: alpha-BHC                                                       | 319-84-6   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 90.8                      | 69.0                                   | 113 |
| EP068: Hexachlorobenzene (HCB)                                         | 118-74-1   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 87.8                      | 65.0                                   | 117 |
| EP068: beta-BHC                                                        | 319-85-7   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 91.5                      | 67.0                                   | 119 |
| EP068: gamma-BHC                                                       | 58-89-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 93.2                      | 68.0                                   | 116 |
| EP068: delta-BHC                                                       | 319-86-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 85.6                      | 65.0                                   | 117 |
| EP068: Heptachlor                                                      | 76-44-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 78.0                      | 67.0                                   | 115 |
| EP068: Aldrin                                                          | 309-00-2   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 90.5                      | 69.0                                   | 115 |
| EP068: Heptachlor epoxide                                              | 1024-57-3  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 77.7                      | 62.0                                   | 118 |

**EP068B: Organophosphorus Pesticides (OP) (QCLot: 5270501)**



Sub-Matrix: **SOIL**

|                                                                              |            |      |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                           |                       |      |
|------------------------------------------------------------------------------|------------|------|-------|-----------------------------|---------------------------------------|---------------------------|-----------------------|------|
|                                                                              |            |      |       |                             | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%) |      |
| Method: Compound                                                             | CAS Number | LOR  | Unit  | Result                      |                                       |                           | Low                   | High |
| <b>EP068B: Organophosphorus Pesticides (OP) (QCLot: 5270501) - continued</b> |            |      |       |                             |                                       |                           |                       |      |
| EP068: Dichlorvos                                                            | 62-73-7    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 70.9                      | 59.0                  | 119  |
| EP068: Demeton-S-methyl                                                      | 919-86-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 101                       | 62.0                  | 128  |
| EP068: Monocrotophos                                                         | 6923-22-4  | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 72.4                      | 54.0                  | 126  |
| EP068: Dimethoate                                                            | 60-51-5    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 98.0                      | 67.0                  | 119  |
| EP068: Diazinon                                                              | 333-41-5   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 91.3                      | 70.0                  | 120  |
| EP068: Chlorpyrifos-methyl                                                   | 5598-13-0  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 87.0                      | 72.0                  | 120  |
| EP068: Parathion-methyl                                                      | 298-00-0   | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 73.5                      | 68.0                  | 120  |
| EP068: Malathion                                                             | 121-75-5   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 81.8                      | 68.0                  | 122  |
| EP068: Fenthion                                                              | 55-38-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 77.9                      | 69.0                  | 117  |
| EP068: Chlorpyrifos                                                          | 2921-88-2  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 78.2                      | 76.0                  | 118  |
| EP068: Parathion                                                             | 56-38-2    | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 74.6                      | 64.0                  | 122  |
| EP068: Pirimphos-ethyl                                                       | 23505-41-1 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 86.6                      | 70.0                  | 116  |
| EP068: Chlorfenvinphos                                                       | 470-90-6   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 104                       | 69.0                  | 121  |
| EP068: Bromophos-ethyl                                                       | 4824-78-6  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 78.8                      | 66.0                  | 118  |
| EP068: Fenamiphos                                                            | 22224-92-6 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 90.0                      | 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                             | 93.3                      | 68.0                  | 120  |
| EP068: Carbophenothion                                                       | 786-19-6   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 91.0                      | 65.0                  | 127  |
| EP068: Azinphos Methyl                                                       | 86-50-0    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.4                      | 41.0                  | 123  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5269107)</b>       |            |      |       |                             |                                       |                           |                       |      |
| EP075(SIM): Naphthalene                                                      | 91-20-3    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 91.6                      | 77.0                  | 125  |
| EP075(SIM): Acenaphthylene                                                   | 208-96-8   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 92.5                      | 72.0                  | 124  |
| EP075(SIM): Acenaphthene                                                     | 83-32-9    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 101                       | 73.0                  | 127  |
| EP075(SIM): Fluorene                                                         | 86-73-7    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 91.8                      | 72.0                  | 126  |
| EP075(SIM): Phenanthrene                                                     | 85-01-8    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 107                       | 75.0                  | 127  |
| EP075(SIM): Anthracene                                                       | 120-12-7   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 103                       | 77.0                  | 127  |
| EP075(SIM): Fluoranthene                                                     | 206-44-0   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 100                       | 73.0                  | 127  |
| EP075(SIM): Pyrene                                                           | 129-00-0   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 101                       | 74.0                  | 128  |
| EP075(SIM): Benz(a)anthracene                                                | 56-55-3    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 106                       | 69.0                  | 123  |
| EP075(SIM): Chrysene                                                         | 218-01-9   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 100                       | 75.0                  | 127  |
| EP075(SIM): Benzo(b+j)fluoranthene                                           | 205-99-2   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 101                       | 68.0                  | 116  |
|                                                                              | 205-82-3   |      |       |                             |                                       |                           |                       |      |
| EP075(SIM): Benzo(k)fluoranthene                                             | 207-08-9   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 103                       | 74.0                  | 126  |
| EP075(SIM): Benzo(a)pyrene                                                   | 50-32-8    | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 99.3                      | 70.0                  | 126  |
| EP075(SIM): Indeno(1.2.3.cd)pyrene                                           | 193-39-5   | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 105                       | 61.0                  | 121  |



| Sub-Matrix: <b>SOIL</b>                                                          |                      |      |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                           |                                   |     |
|----------------------------------------------------------------------------------|----------------------|------|-------|-----------------------------|---------------------------------------|---------------------------|-----------------------------------|-----|
|                                                                                  |                      |      |       |                             | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%)<br>Low High |     |
| Method: Compound                                                                 | CAS Number           | LOR  | Unit  | Result                      |                                       |                           |                                   |     |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5269107) - continued      |                      |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Dibenz(a,h)anthracene                                                | 53-70-3              | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 101                       | 62.0                              | 118 |
| EP075(SIM): Benzo(g,h,i)perylene                                                 | 191-24-2             | 0.5  | mg/kg | <0.5                        | 6 mg/kg                               | 102                       | 63.0                              | 121 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5269106)                         |                      |      |       |                             |                                       |                           |                                   |     |
| EP071: C10 - C14 Fraction                                                        | ----                 | 50   | mg/kg | <50                         | 300 mg/kg                             | 93.9                      | 75.0                              | 129 |
| EP071: C15 - C28 Fraction                                                        | ----                 | 100  | mg/kg | <100                        | 450 mg/kg                             | 86.9                      | 77.0                              | 131 |
| EP071: C29 - C36 Fraction                                                        | ----                 | 100  | mg/kg | <100                        | 300 mg/kg                             | 84.1                      | 71.0                              | 129 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5270054)                         |                      |      |       |                             |                                       |                           |                                   |     |
| EP080: C6 - C9 Fraction                                                          | ----                 | 10   | mg/kg | <10                         | 26 mg/kg                              | 92.0                      | 72.2                              | 131 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5269106) |                      |      |       |                             |                                       |                           |                                   |     |
| EP071: >C10 - C16 Fraction                                                       | ----                 | 50   | mg/kg | <50                         | 375 mg/kg                             | 94.4                      | 77.0                              | 125 |
| EP071: >C16 - C34 Fraction                                                       | ----                 | 100  | mg/kg | <100                        | 525 mg/kg                             | 82.7                      | 74.0                              | 138 |
| EP071: >C34 - C40 Fraction                                                       | ----                 | 100  | mg/kg | <100                        | 225 mg/kg                             | 82.9                      | 63.0                              | 131 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5270054) |                      |      |       |                             |                                       |                           |                                   |     |
| EP080: C6 - C10 Fraction                                                         | C6_C10               | 10   | mg/kg | <10                         | 31 mg/kg                              | 86.6                      | 72.4                              | 133 |
| EP080: BTEXN (QCLot: 5270054)                                                    |                      |      |       |                             |                                       |                           |                                   |     |
| EP080: Benzene                                                                   | 71-43-2              | 0.2  | mg/kg | <0.2                        | 1 mg/kg                               | 85.9                      | 76.0                              | 124 |
| EP080: Toluene                                                                   | 108-88-3             | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 84.7                      | 78.5                              | 121 |
| EP080: Ethylbenzene                                                              | 100-41-4             | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 85.4                      | 77.4                              | 121 |
| EP080: meta- & para-Xylene                                                       | 108-38-3<br>106-42-3 | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 85.0                      | 78.2                              | 121 |
| EP080: ortho-Xylene                                                              | 95-47-6              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 86.7                      | 81.3                              | 121 |
| EP080: Naphthalene                                                               | 91-20-3              | 1    | mg/kg | <1                          | 1 mg/kg                               | 84.4                      | 78.8                              | 122 |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 5269784)                   |                      |      |       |                             |                                       |                           |                                   |     |
| EP202: 4-Chlorophenoxy acetic acid                                               | 122-88-3             | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 63.5                      | 54.4                              | 128 |
| EP202: 2,4-DB                                                                    | 94-82-6              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 64.4                      | 45.5                              | 130 |
| EP202: Dicamba                                                                   | 1918-00-9            | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 75.9                      | 51.7                              | 135 |
| EP202: Mecoprop                                                                  | 93-65-2              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 64.7                      | 60.0                              | 130 |
| EP202: MCPA                                                                      | 94-74-6              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 65.4                      | 56.8                              | 131 |
| EP202: 2,4-DP                                                                    | 120-36-5             | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 68.5                      | 50.0                              | 141 |
| EP202: 2,4-D                                                                     | 94-75-7              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 84.8                      | 68.5                              | 131 |
| EP202: Triclopyr                                                                 | 55335-06-3           | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 64.8                      | 50.8                              | 141 |
| EP202: 2,4,5-TP (Silvex)                                                         | 93-72-1              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 61.8                      | 40.8                              | 126 |
| EP202: 2,4,5-T                                                                   | 93-76-5              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 72.4                      | 57.4                              | 139 |
| EP202: MCPB                                                                      | 94-81-5              | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 64.4                      | 38.9                              | 137 |



| Sub-Matrix: <b>SOIL</b>                                                    |            |      |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                           |                                        |     |
|----------------------------------------------------------------------------|------------|------|-------|-----------------------------|---------------------------------------|---------------------------|----------------------------------------|-----|
|                                                                            |            |      |       |                             | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%)<br>Low      High |     |
| Method: Compound                                                           | CAS Number | LOR  | Unit  | Result                      |                                       |                           |                                        |     |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 5269784) - continued |            |      |       |                             |                                       |                           |                                        |     |
| EP202: Picloram                                                            | 1918-02-1  | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 60.9                      | 48.7                                   | 129 |
| EP202: Clopyralid                                                          | 1702-17-6  | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 55.6                      | 49.4                                   | 106 |
| EP202: Fluroxypyr                                                          | 69377-81-7 | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 64.1                      | 53.2                                   | 128 |

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                                           |                    |                   |            | Matrix Spike (MS) Report |                  |                       |      |
|------------------------------------------------------------|--------------------|-------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                            |                    |                   |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                       | Sample ID          | Method: Compound  | CAS Number | Concentration            | MS               | Low                   | High |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5273219)    |                    |                   |            |                          |                  |                       |      |
| ES2329150-001                                              | Anonymous          | EG005T: Arsenic   | 7440-38-2  | 50 mg/kg                 | 104              | 70.0                  | 130  |
|                                                            |                    | EG005T: Cadmium   | 7440-43-9  | 50 mg/kg                 | 100.0            | 70.0                  | 130  |
|                                                            |                    | EG005T: Chromium  | 7440-47-3  | 50 mg/kg                 | 106              | 68.0                  | 132  |
|                                                            |                    | EG005T: Copper    | 7440-50-8  | 250 mg/kg                | 96.2             | 70.0                  | 130  |
|                                                            |                    | EG005T: Lead      | 7439-92-1  | 250 mg/kg                | 105              | 70.0                  | 130  |
|                                                            |                    | EG005T: Nickel    | 7440-02-0  | 50 mg/kg                 | 107              | 70.0                  | 130  |
|                                                            |                    | EG005T: Zinc      | 7440-66-6  | 250 mg/kg                | 106              | 66.0                  | 133  |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5274223)    |                    |                   |            |                          |                  |                       |      |
| EP2311633-001                                              | Anonymous          | EG005T: Arsenic   | 7440-38-2  | 50 mg/kg                 | 102              | 70.0                  | 130  |
|                                                            |                    | EG005T: Cadmium   | 7440-43-9  | 50 mg/kg                 | 101              | 70.0                  | 130  |
|                                                            |                    | EG005T: Chromium  | 7440-47-3  | 50 mg/kg                 | 107              | 68.0                  | 132  |
|                                                            |                    | EG005T: Copper    | 7440-50-8  | 250 mg/kg                | 95.8             | 70.0                  | 130  |
|                                                            |                    | EG005T: Lead      | 7439-92-1  | 250 mg/kg                | 99.6             | 70.0                  | 130  |
|                                                            |                    | EG005T: Nickel    | 7440-02-0  | 50 mg/kg                 | 101              | 70.0                  | 130  |
|                                                            |                    | EG005T: Zinc      | 7440-66-6  | 250 mg/kg                | 102              | 66.0                  | 133  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5273220) |                    |                   |            |                          |                  |                       |      |
| ES2329150-001                                              | Anonymous          | EG035T: Mercury   | 7439-97-6  | 5 mg/kg                  | 88.5             | 70.0                  | 130  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5274222) |                    |                   |            |                          |                  |                       |      |
| EP2311633-001                                              | Anonymous          | EG035T: Mercury   | 7439-97-6  | 5 mg/kg                  | 95.3             | 70.0                  | 130  |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 5269105)    |                    |                   |            |                          |                  |                       |      |
| ES2329175-012                                              | J1 Sample ID: JS_1 | EP068: gamma-BHC  | 58-89-9    | 0.5 mg/kg                | 94.0             | 70.0                  | 130  |
|                                                            |                    | EP068: Heptachlor | 76-44-8    | 0.5 mg/kg                | 74.4             | 70.0                  | 130  |
|                                                            |                    | EP068: Aldrin     | 309-00-2   | 0.5 mg/kg                | 88.7             | 70.0                  | 130  |
|                                                            |                    | EP068: Dieldrin   | 60-57-1    | 0.5 mg/kg                | 109              | 70.0                  | 130  |
|                                                            |                    | EP068: Endrin     | 72-20-8    | 2 mg/kg                  | 80.6             | 70.0                  | 130  |

| Sub-Matrix: SOIL                                                                 |                    |                            |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|--------------------|----------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |                    |                            |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID          | Method: Compound           | CAS Number | Concentration            | MS               | Low                   | High |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 5269105) - continued              |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP068: 4,4'-DDT            | 50-29-3    | 2 mg/kg                  | 89.2             | 70.0                  | 130  |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 5270501)                          |                    |                            |            |                          |                  |                       |      |
| ES2329264-001                                                                    | Anonymous          | EP068: gamma-BHC           | 58-89-9    | 0.5 mg/kg                | 93.6             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Heptachlor          | 76-44-8    | 0.5 mg/kg                | 82.9             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Aldrin              | 309-00-2   | 0.5 mg/kg                | 93.6             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Dieldrin            | 60-57-1    | 0.5 mg/kg                | 91.1             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Endrin              | 72-20-8    | 2 mg/kg                  | 96.2             | 70.0                  | 130  |
|                                                                                  |                    | EP068: 4,4'-DDT            | 50-29-3    | 2 mg/kg                  | 81.0             | 70.0                  | 130  |
| EP068B: Organophosphorus Pesticides (OP) (QCLot: 5269105)                        |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP068: Diazinon            | 333-41-5   | 0.5 mg/kg                | 88.5             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Chlorpyrifos-methyl | 5598-13-0  | 0.5 mg/kg                | 79.2             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Pirimphos-ethyl     | 23505-41-1 | 0.5 mg/kg                | 81.6             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Bromophos-ethyl     | 4824-78-6  | 0.5 mg/kg                | 84.9             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Prothiofos          | 34643-46-4 | 0.5 mg/kg                | 72.2             | 70.0                  | 130  |
| EP068B: Organophosphorus Pesticides (OP) (QCLot: 5270501)                        |                    |                            |            |                          |                  |                       |      |
| ES2329264-001                                                                    | Anonymous          | EP068: Diazinon            | 333-41-5   | 0.5 mg/kg                | 100              | 70.0                  | 130  |
|                                                                                  |                    | EP068: Chlorpyrifos-methyl | 5598-13-0  | 0.5 mg/kg                | 83.0             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Pirimphos-ethyl     | 23505-41-1 | 0.5 mg/kg                | 84.0             | 70.0                  | 130  |
|                                                                                  |                    | EP068: Bromophos-ethyl     | 4824-78-6  | 0.5 mg/kg                | 110              | 70.0                  | 130  |
|                                                                                  |                    | EP068: Prothiofos          | 34643-46-4 | 0.5 mg/kg                | 84.1             | 70.0                  | 130  |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5269107)                  |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP075(SIM): Acenaphthene   | 83-32-9    | 10 mg/kg                 | 96.9             | 70.0                  | 130  |
|                                                                                  |                    | EP075(SIM): Pyrene         | 129-00-0   | 10 mg/kg                 | 99.7             | 70.0                  | 130  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5269106)                         |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP071: C10 - C14 Fraction  | ----       | 480 mg/kg                | 112              | 73.0                  | 137  |
|                                                                                  |                    | EP071: C15 - C28 Fraction  | ----       | 3100 mg/kg               | 117              | 53.0                  | 131  |
|                                                                                  |                    | EP071: C29 - C36 Fraction  | ----       | 2060 mg/kg               | # 135            | 52.0                  | 132  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5270054)                         |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP080: C6 - C9 Fraction    | ----       | 32.5 mg/kg               | 76.1             | 60.4                  | 142  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5269106) |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP071: >C10 - C16 Fraction | ----       | 860 mg/kg                | 113              | 73.0                  | 137  |
|                                                                                  |                    | EP071: >C16 - C34 Fraction | ----       | 4320 mg/kg               | 123              | 53.0                  | 131  |
|                                                                                  |                    | EP071: >C34 - C40 Fraction | ----       | 890 mg/kg                | 130              | 52.0                  | 132  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5270054) |                    |                            |            |                          |                  |                       |      |
| ES2329175-012                                                                    | J1 Sample ID: JS_1 | EP080: C6 - C10 Fraction   | C6_C10     | 37.5 mg/kg               | 70.2             | 61.1                  | 142  |
| EP080: BTEXN (QCLot: 5270054)                                                    |                    |                            |            |                          |                  |                       |      |



| Sub-Matrix: SOIL                          |                    |                                                                |            | Matrix Spike (MS) Report |                  |                       |      |
|-------------------------------------------|--------------------|----------------------------------------------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                           |                    |                                                                |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                      | Sample ID          | Method: Compound                                               | CAS Number | Concentration            | MS               | Low                   | High |
| EP080: BTEXN (QCLot: 5270054) - continued |                    |                                                                |            |                          |                  |                       |      |
| ES2329175-012                             | J1 Sample ID: JS_1 | EP080: Benzene                                                 | 71-43-2    | 2.5 mg/kg                | 73.1             | 62.1                  | 122  |
|                                           |                    | EP080: Toluene                                                 | 108-88-3   | 2.5 mg/kg                | 74.6             | 66.6                  | 119  |
|                                           |                    | EP080: Ethylbenzene                                            | 100-41-4   | 2.5 mg/kg                | 75.7             | 67.4                  | 123  |
|                                           |                    | EP080: meta- & para-Xylene                                     | 108-38-3   | 2.5 mg/kg                | 73.4             | 66.4                  | 121  |
|                                           |                    |                                                                | 106-42-3   |                          |                  |                       |      |
|                                           |                    | EP080: ortho-Xylene                                            | 95-47-6    | 2.5 mg/kg                | 78.5             | 70.7                  | 121  |
| EM2315418-001                             | Anonymous          | EP080: Naphthalene                                             | 91-20-3    | 2.5 mg/kg                | 69.5             | 61.1                  | 115  |
|                                           |                    | EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 5269784) |            |                          |                  |                       |      |
|                                           |                    | EP202: Mecoprop                                                | 93-65-2    | 0.1 mg/kg                | # 53.8           | 60.0                  | 140  |
|                                           |                    | EP202: MCPA                                                    | 94-74-6    | 0.1 mg/kg                | # 51.6           | 57.0                  | 143  |
|                                           |                    | EP202: 2.4-D                                                   | 94-75-7    | 0.1 mg/kg                | # 49.8           | 68.0                  | 139  |
|                                           |                    | EP202: Triclopyr                                               | 55335-06-3 | 0.1 mg/kg                | 52.2             | 51.0                  | 145  |
|                                           |                    | EP202: 2.4.5-T                                                 | 93-76-5    | 0.1 mg/kg                | # 42.7           | 57.0                  | 142  |
|                                           |                    | EP202: Picloram                                                | 1918-02-1  | 0.1 mg/kg                | 80.5             | 49.0                  | 138  |
|                                           |                    | EP202: Clopyralid                                              | 1702-17-6  | 0.1 mg/kg                | # 27.0           | 49.0                  | 149  |



## QA/QC Compliance Assessment to assist with Quality Review

|              |                       |                         |                                 |
|--------------|-----------------------|-------------------------|---------------------------------|
| Work Order   | : ES2329175           | Page                    | : 1 of 9                        |
| Client       | : PREMISE NSW Pty Ltd | Laboratory              | : Environmental Division Sydney |
| Contact      | : B STUART            | Telephone               | : +61-2-8784 8555               |
| Project      | : 123050 RRD          | Date Samples Received   | : 29-Aug-2023                   |
| Site         | : ----                | Issue Date              | : 06-Sep-2023                   |
| Sampler      | : B. Searl            | No. of samples received | : 30                            |
| Order number | : ----                | No. of samples analysed | : 23                            |

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.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

#### Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

#### Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



### Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

| Compound Group Name                           | Laboratory Sample ID | Client Sample ID   | Analyte                   | CAS Number | Data   | Limits    | Comment                                                   |
|-----------------------------------------------|----------------------|--------------------|---------------------------|------------|--------|-----------|-----------------------------------------------------------|
| <b>Matrix Spike (MS) Recoveries</b>           |                      |                    |                           |            |        |           |                                                           |
| EP080/071: Total Petroleum Hydrocarbons       | ES2329175--012       | J1 Sample ID: JS_1 | <b>C29 - C36 Fraction</b> | ----       | 135 %  | 52.0-132% | <b>Recovery greater than upper data quality objective</b> |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>Mecoprop</b>           | 93-65-2    | 53.8 % | 60.0-140% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>MCPA</b>               | 94-74-6    | 51.6 % | 57.0-143% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>2,4-D</b>              | 94-75-7    | 49.8 % | 68.0-139% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>2,4,5-T</b>            | 93-76-5    | 42.7 % | 57.0-142% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>Clopyralid</b>         | 1702-17-6  | 27.0 % | 49.0-149% | <b>Recovery less than lower data quality objective</b>    |

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.

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 VOC in soils 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

| Method                                                                                                                                                                                                                                             | Sample Date                                                                                                                                                                                                     | Extraction / 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)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15, | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023              | ----               | ----       | ----          | 01-Sep-2023      | 07-Sep-2023 | ✓ |
| Soil Glass Jar - Unpreserved (EA055)<br>S1 - Sample ID: SS_1,<br>S5 - Sample ID: SS_5,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11                                                                                                          | S3 - Sample ID: SS_3,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,                                                                                                                                       | 24-Aug-2023              | ----               | ----       | ----          | 04-Sep-2023      | 07-Sep-2023 | ✓ |



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sample Date | Extraction / Preparation |                    |            | Analysis      |                  |            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|--|
| Container / Client Sample ID(s)                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Date extracted           | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |  |
| EG005(ED093)T: Total Metals by ICP-AES                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EG005T)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15,<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023 | 01-Sep-2023              | 20-Feb-2024        | ✔          | 04-Sep-2023   | 20-Feb-2024      | ✔          |  |
| Soil Glass Jar - Unpreserved (EG005T)<br>S5 - Sample ID: SS_5                                                                                                                                                                                                                                                                                                                                                                                                          | 24-Aug-2023 | 04-Sep-2023              | 20-Feb-2024        | ✔          | 04-Sep-2023   | 20-Feb-2024      | ✔          |  |
| EG035T: Total Recoverable Mercury by FIMS                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EG035T)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15,<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023 | 01-Sep-2023              | 21-Sep-2023        | ✔          | 05-Sep-2023   | 21-Sep-2023      | ✔          |  |
| Soil Glass Jar - Unpreserved (EG035T)<br>S5 - Sample ID: SS_5                                                                                                                                                                                                                                                                                                                                                                                                          | 24-Aug-2023 | 04-Sep-2023              | 21-Sep-2023        | ✔          | 05-Sep-2023   | 21-Sep-2023      | ✔          |  |
| EP068A: Organochlorine Pesticides (OC)                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EP068)<br>S1 - Sample ID: SS_1,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,<br>J1 - Sample ID: JS_1,<br>S3 - Sample ID: SS_3,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11,<br>J2 - Sample ID: JS_2                                                                                                                                                                                                                        | 24-Aug-2023 | 02-Sep-2023              | 07-Sep-2023        | ✔          | 04-Sep-2023   | 12-Oct-2023      | ✔          |  |
| Soil Glass Jar - Unpreserved (EP068)<br>S5 - Sample ID: SS_5,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15                           | 24-Aug-2023 | 02-Sep-2023              | 07-Sep-2023        | ✔          | 05-Sep-2023   | 12-Oct-2023      | ✔          |  |



Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                                  | Sample Date                                                                                                                                                                       | Extraction / Preparation |                    |             | Analysis      |                  |             |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------------|---------------|------------------|-------------|---|
| Container / Client Sample ID(s)                                                                                                                                                                                                                         |                                                                                                                                                                                   | Date extracted           | Due for extraction | Evaluation  | Date analysed | Due for analysis | Evaluation  |   |
| EP068B: Organophosphorus Pesticides (OP)                                                                                                                                                                                                                |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP068)<br>S1 - Sample ID: SS_1,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,<br>J1 - Sample ID: JS_1,                                                                                                              | S3 - Sample ID: SS_3,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11,<br>J2 - Sample ID: JS_2                                                                                 | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP068)<br>S5 - Sample ID: SS_5,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 12-Oct-2023 | ✔ |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons                                                                                                                                                                                                          |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15  | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                            | Sample Date                                                                                                                                                                       | Extraction / Preparation |                    |             | Analysis      |                  |             |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------------|---------------|------------------|-------------|---|
| Container / Client Sample ID(s)                                                                                                                                                                                                                   |                                                                                                                                                                                   | Date extracted           | Due for extraction | Evaluation  | Date analysed | Due for analysis | Evaluation  |   |
| EP080/071: Total Petroleum Hydrocarbons                                                                                                                                                                                                           |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP071)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15 | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                                                                     | J15 - Sample ID: JS_15                                                                                                                                                            | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,                                                    | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14                           | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                                                                      |                                                                                                                                                                                   | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions                                                                                                                                                                                   |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP071)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15 | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                                                                     | J15 - Sample ID: JS_15                                                                                                                                                            | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,                                                    | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14                           | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                                                                      |                                                                                                                                                                                   | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |



| Matrix: SOIL                                                                                                                                                                                   |  |                                                                                                                                                         | Evaluation: <span style="color: red;">✖</span> = Holding time breach ; <span style="color: green;">✔</span> = Within holding time. |                    |             |               |                  |             |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|---------------|------------------|-------------|---|
| Method                                                                                                                                                                                         |  | Sample Date                                                                                                                                             | Extraction / 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 (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                  |  | J15 - Sample ID: JS_15                                                                                                                                  | 24-Aug-2023                                                                                                                        | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13, |  | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14 | 24-Aug-2023                                                                                                                        | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                   |  |                                                                                                                                                         | 24-Aug-2023                                                                                                                        | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS                                                                                                                                                  |  |                                                                                                                                                         |                                                                                                                                    |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP202)<br>S3 - Sample ID: SS_3,<br>S8 - Sample ID: SS_8,<br>S11 - Sample ID: SS_11,<br>J6 - Sample ID: JS_6,<br>J14 - Sample ID: JS_14,                          |  | S5 - Sample ID: SS_5,<br>S10 - Sample ID: SS_10,<br>J4 - Sample ID: JS_4,<br>J11 - Sample ID: JS_11,<br>J15 - Sample ID: JS_15                          | 24-Aug-2023                                                                                                                        | 01-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 11-Oct-2023 | ✔ |



## Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

| Quality Control Sample Type                        |            | Count |         | Rate (%) |          |            | Quality Control Specification  |
|----------------------------------------------------|------------|-------|---------|----------|----------|------------|--------------------------------|
| Analytical Methods                                 | Method     | QC    | Regular | Actual   | Expected | Evaluation |                                |
| Laboratory Duplicates (DUP)                        |            |       |         |          |          |            |                                |
| Moisture Content                                   | EA055      | 6     | 59      | 10.17    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                  | EP075(SIM) | 2     | 15      | 13.33    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 3     | 30      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 2     | 19      | 10.53    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 4     | 40      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 4     | 40      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 2     | 15      | 13.33    | 10.00    | ✓          | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                 | EP080      | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |



## Brief Method Summaries

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

| Analytical Methods                                         | Method     | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Moisture Content                                           | EA055      | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                |
| Total Metals by ICP-AES                                    | EG005T     | SOIL   | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)                                                                                                              |
| Total Mercury by FIMS                                      | EG035T     | SOIL   | In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl <sub>2</sub> ) (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 SnCl <sub>2</sub> 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) |
| 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)                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                                                                                                        |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)         | EP202      | SOIL   | In house: LCMS (Electrospray in negative mode). Residues of acid herbicides are extracted from soil samples under the alkaline condition. An aliquot of the alkaline aqueous phase is taken and acidified before a SPE cleanup. After eluting off from the SPE cartridge, residues of acid herbicides are dissolved in HPLC mobile phase prior to instrument analysis.                                                                                                                                     |
| Preparation Methods                                        | Method     | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hot Block Digest for metals in soils sediments and sludges | EN69       | SOIL   | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).                                                                                                       |
| Extraction for Phenoxy Acid Herbicides in Soils.           | EP202-PR   | SOIL   | In-House: Alkaline extract followed by SPE clean up of acidified portion of the sample extract.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                                                                          |



| 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. |





# **APPENDIX A**

## **REGISTERED GROUNDWATER BORE RECORDS**



# CHAIN OF CUSTODY

ALS Laboratory  
please tick →

LABORATORY: 21 Burns Road, Peartree SA 5096  
Ph: 08 8359 0800 E: [alslab@alsglobal.com](mailto:alslab@alsglobal.com)  
LABORATORY: 32 Strand Street, Sturtford QLD 4053  
Ph: 07 3243 7222 E: [samples.brisbane@alsglobal.com](mailto:samples.brisbane@alsglobal.com)  
LABORATORY: 46 Callaghan Drive, Chirn QLD 4830  
Ph: 07 7421 9500 E: [goldcoast@alsglobal.com](mailto:goldcoast@alsglobal.com)

LABORATORY: 78 Harbour Road, Mackay QLD 4740  
Ph: 07 4844 0177 E: [mackay@alsglobal.com](mailto:mackay@alsglobal.com)  
LABORATORY: 2-4 Weir Road, Springvale VIC 3171  
Ph: 03 8548 9800 E: [samples.melbourne@alsglobal.com](mailto:samples.melbourne@alsglobal.com)  
LABORATORY: 27 Sydney Road, Mulgrave VIC 3260  
Ph: 03 6372 6735 E: [multiphase@alsglobal.com](mailto:multiphase@alsglobal.com)

LABORATORY: 5665 Mainland Rd, Mayfield West NSW 2304  
Ph: 02 4014 2500 E: [samples.newcastle@alsglobal.com](mailto:samples.newcastle@alsglobal.com)  
LABORATORY: 4413 Casey Place, North Sydney NSW 2051  
Ph: 02 4423 2065 E: [nova@alsglobal.com](mailto:nova@alsglobal.com)  
LABORATORY: 10145 Hwy 144, Las Vegas NV 89000  
Ph: 08 8203 7655 E: [samples.portph@alsglobal.com](mailto:samples.portph@alsglobal.com)  
LABORATORY: 277-289 Woodbank Road, Smithfield NSW 2164  
Ph: 02 8784 8555 E: [samples.syd@alsglobal.com](mailto:samples.syd@alsglobal.com)  
LABORATORY: 14-15 Desma Court, Balke QLD 4818  
Ph: 07 4726 0600 E: [brisbane@alsglobal.com](mailto:brisbane@alsglobal.com)  
LABORATORY: 99 Kenny Street, North Sydney NSW 2250  
Ph: 02 4225 3125 E: [portership@alsglobal.com](mailto:portership@alsglobal.com)

CLIENT: Premise Australia

TURNAROUND REQUIREMENTS:

OFFICE: Orange NSW

(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)

☒ Standard TAT (list due date):

FOR LABORATORY USE ONLY (Circle)

PROJECT: 123050 RRD

ALS QUOTE NO.:

EN22221

COC SEQUENCE NUMBER (circle)

Custody Seal intact? Yes No N/A

ORDER NUMBER:

CONTACT PH: 0418 607 830

COC: ① 2 3 4 5 6 7

Free ice / frozen ice bricks present upon receipt? Yes No N/A

PROJECT MANAGER: B. Stuart

SAMPLER MOBILE:

RECEIVED BY:

Random Sample Temperature on Receipt: °C

SAMPLER: B. Seat

EDD FORMAT (or default):

RECEIVED BY:

Other comment:

COC emailed to ALS? (YES / NO)

DATE/TIME:

DATE/TIME:

Email Reports to (will default to PM if no other addresses are listed):

DATE/TIME:

DATE/TIME:

Email Invoice to (will default to PM if no other addresses are listed):

DATE/TIME:

DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

| ALS USE |           | SAMPLE DETAILS<br>MATRIX: SOLID (S) WATER (W) |        | CONTAINER INFORMATION                               |                          | ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)<br>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). |      |     |       |     |       | Additional Information |  |  |  |  |  |                                                                                                  |
|---------|-----------|-----------------------------------------------|--------|-----------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-------|-----|-------|------------------------|--|--|--|--|--|--------------------------------------------------------------------------------------------------|
| LAB ID  | SAMPLE ID | DATE / TIME                                   | MATRIX | TYPE & PRESERVATIVE<br><small>(codes below)</small> | <small>(refer to</small> | TOTAL<br>CONTAINERS                                                                                                                                                                                                | S-12 | S-3 | EP202 | S-7 | EA200 |                        |  |  |  |  |  | Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. |
| 1       | S1        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     |       |     |       |                        |  |  |  |  |  | HOLD                                                                                             |
| 2       | S2        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  |      |     |       |     |       |                        |  |  |  |  |  |                                                                                                  |
| 3       | S3        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     | X     |     |       |                        |  |  |  |  |  |                                                                                                  |
| 4       | S4        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  |      |     |       |     |       |                        |  |  |  |  |  | HOLD                                                                                             |
| 5       | S5        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    | X   | X     |     |       |                        |  |  |  |  |  |                                                                                                  |
| 6       | S6        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  |      |     |       |     |       |                        |  |  |  |  |  |                                                                                                  |
| 7       | S7        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  |      |     |       |     |       |                        |  |  |  |  |  | HOLD                                                                                             |
| 8       | S8        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     | X     |     |       |                        |  |  |  |  |  |                                                                                                  |
| 9       | S9        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     |       |     |       |                        |  |  |  |  |  |                                                                                                  |
| 10      | S10       | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     | X     |     |       |                        |  |  |  |  |  | HOLD                                                                                             |
| 11      | S11       | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    |     | X     |     |       |                        |  |  |  |  |  |                                                                                                  |
| 12      | J1        | 24/08/2023                                    | S      | JAR                                                 |                          | 1                                                                                                                                                                                                                  | X    | X   |       | X   |       |                        |  |  |  |  |  |                                                                                                  |
| TOTAL   |           |                                               |        |                                                     |                          |                                                                                                                                                                                                                    |      |     |       |     |       |                        |  |  |  |  |  |                                                                                                  |

Environmental Division

Sydney

Work Order Reference

ES2329175



Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airfreight Unpreserved Plastic  
V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulfate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Specimen bottle, SP = Sulfuric Pre  
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag

Environmental Division  
Sydney  
Work Order Reference  
ES2329175



Telephone : + 61-2-8784 8555



CHAIN OF  
CUSTODY

ALS Laboratory  
please tick →

CLIENT: Premise Australia

OFFICE: Orange NSW

PROJECT: 123050 RRD

ORDER NUMBER:

PROJECT MANAGER: B. Stuart

SAMPLER: B. Seair

COC emailed to ALS? ( YES / NO )

Email Reports to (will default to PM if no other addresses are listed):

Email Invoice to (will default to PM if no other addresses are listed):

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: ☒ Standard TAT (List due date):

(Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.: EN1222/21

CONTACT PH: 0418 607 830

SAMPLER MOBILE:

EDD FORMAT (or default):

DATE/TIME:

DATE/TIME:

DATE/TIME:

DATE/TIME:

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DATE/TIME:

COC SEQUENCE NUMBER (Circle)

1 2 3 4 5 6 7

Free ice / frozen ice bricks present upon receipt?

Random Sample Temperature on Receipt:

Other comment:

RECEIVED BY:

DATE/TIME:

DATE/TIME:

DATE/TIME:

DATE/TIME:

DATE/TIME:

DATE/TIME:

DATE/TIME:

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DATE/TIME:

FOR LABORATORY USE ONLY (Circle)

Custody Seal intact?

Free ice / frozen ice bricks present upon receipt?

Random Sample Temperature on Receipt:

Other comment:

RECEIVED BY:

DATE/TIME:

DATE/TIME:

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Yes No N/A

Yes No N/A

Yes No N/A

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N/A

Yes

No

N/A

Yes

No

N/A

Yes

No

N/A

Yes

No

N/A

Yes

No

N/A

LABORATORY: 21 Burns Road Bourke SA 5006  
Ph: 08 8559 0800 E: info@alslab.com  
LABORATORY: 32 Stand Street Sturtfield QLD 4053  
Ph: 07 3243 7222 E: samples@alslab.com  
LABORATORY: 46 Colman Road Drive Clifton QLD 4880  
Ph: 07 7471 5900 E: gordon@alslab.com  
LABORATORY: 78 Hawthorn Road Mackay QLD 4740  
Ph: 07 4844 0177 E: mackay@alslab.com  
LABORATORY: 24 Wessell Road Springvale VIC 3171  
Ph: 03 8548 8800 E: samples@alslab.com  
LABORATORY: 27 Sydney Road Mulgoa NSW 2850  
Ph: 02 6372 6735 E: mulgoa@alslab.com  
LABORATORY: 6455 Mainland Rd Mayfield NSW 2204  
Ph: 02 40 14 2500 E: samples@alslab.com  
LABORATORY: 4713 Seary Place North Waverley NSW 2241  
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LABORATORY: 10 Hockley Way Warragul VIC 3100  
Ph: 08 8208 7855 E: samples@alslab.com  
LABORATORY: 277 Woodstock Road Smithfield NSW 2164  
Ph: 02 87 84 8555 E: samples@alslab.com  
LABORATORY: 14-15 Derrin Court Seale QLD 4818  
Ph: 07 4726 0800 E: seale@alslab.com  
LABORATORY: 49 Kenny Street Wollongong NSW 2500  
Ph: 02 4225 5125 E: wollongong@alslab.com

CLIENT: Premise Australia

OFFICE: Orange NSW

PROJECT: 123050 RRD

ORDER NUMBER:

PROJECT MANAGER: B. Stuart

SAMPLER: B. Seart

COC emailed to ALS? (YES / NO)

Email Reports to (will default to PM if no other addresses are listed):

Email Invoice to (will default to PM if no other addresses are listed):

COMMENT/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS: ☒ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date):

(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)

ALS QUOTE NO.: EN12221

CONTACT PH: 0418 607 830

SAMPLER MOBILE:

EDD FORMAT (or default):

RELINQUISHED BY: PREMISE

DATE/TIME: 28/02/23 14:00

RECEIVED BY: [Signature]

DATE/TIME: 29/03/23 11:50am

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY:

DATE/TIME:

| ALS USE | SAMPLE DETAILS<br>MATRIX: SOLID (S) WATER (W) |             |        | CONTAINER INFORMATION                               |                                       | ANALYSIS REQUIRED including SUITES (NB: Suite Codes must be listed to attract suite price)<br>Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). |      |       |       |     |       | Additional Information |  |  |  |  |                                                                                                  |
|---------|-----------------------------------------------|-------------|--------|-----------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-----|-------|------------------------|--|--|--|--|--------------------------------------------------------------------------------------------------|
| LAB ID  | SAMPLE ID                                     | DATE / TIME | MATRIX | TYPE & PRESERVATIVE<br><small>(codes below)</small> | <small>(refer to codes below)</small> | TOTAL CONTAINERS                                                                                                                                                                                                   | S-12 | EP202 | EP202 | S-7 | EA200 |                        |  |  |  |  | Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc. |
| 25      | J14                                           | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  | X    | X     | X     | X   |       |                        |  |  |  |  |                                                                                                  |
| 26      | J15                                           | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  | X    | X     | X     | X   | X     |                        |  |  |  |  |                                                                                                  |
| 27      | J8_B                                          | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  |      |       |       |     |       |                        |  |  |  |  | HOLD                                                                                             |
| 28      | J5_B                                          | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  |      |       |       |     |       |                        |  |  |  |  | HOLD                                                                                             |
| 29      | J7_B                                          | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  |      |       |       |     |       |                        |  |  |  |  | HOLD                                                                                             |
| 30      | J11_B                                         | 24/08/2023  | S      | JAR                                                 |                                       | 1                                                                                                                                                                                                                  | X    | X     |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |
|         |                                               |             |        |                                                     |                                       |                                                                                                                                                                                                                    |      |       |       |     |       |                        |  |  |  |  |                                                                                                  |

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic; V = VOA Val HCl Preserved; VB = VOA Val Sodium Bisulfate Preserved; VS = VOA Val Sulfuric Preserved; AV = Airfreight Unpreserved Val; SG = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

# WaterNSW

## Work Summary

GW008211

Licence: 80WA718899

Licence Status: CURRENT

Authorised Purpose(s): STOCK,DOMESTIC  
Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore

Work Status: Abandoned

Construct.Method: Cable Tool

Owner Type: Private

Commenced Date:

Completion Date: 01/12/1950

Final Depth: 19.80 m

Drilled Depth: 19.80 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: ROCKY NSW

GWMA: -

GW Zone: -

Standing Water Level (m):

Salinity Description: 0-500 ppm

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: LINCOLN  
Licensed: LINCOLN

Parish  
WARRIE  
WARRIE

Cadastre  
9  
Whole Lot //

Region: 80 - Macquarie-Western

River Basin: 421 - MACQUARIE RIVER

Area/District:

CMA Map: 8633-3N

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation Source: Unknown

Northing: 6419671.000

Easting: 654071.000

Latitude: 32°20'57.4"S

Longitude: 148°38'14.2"E

GS Map: -

MGA Zone: 55

Coordinate Source: GD.,ACC.MAP

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

| Hole | Pipe | Component | Type           | From (m) | To (m) | Outside Diameter (mm) | Inside Diameter (mm) | Interval | Details                 |
|------|------|-----------|----------------|----------|--------|-----------------------|----------------------|----------|-------------------------|
| 1    | 1    | Casing    | Threaded Steel | -0.50    | 18.00  | 152                   |                      |          |                         |
| 1    | 1    | Opening   | Screen         | 18.00    | 19.80  | 127                   |                      | 1        | Copper Alloy, A: 1.65mm |

## Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type       | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|----------------|------------|------------|-------------|----------------|---------------|-----------------|
| 8.50     | 8.50   | 0.00          | Unconsolidated | 7.00       |            | 4.55        |                |               |                 |

## Drillers Log

| From (m) | To (m) | Thickness (m) | Drillers Description | Geological Material | Comments |
|----------|--------|---------------|----------------------|---------------------|----------|
| 0.00     | 8.53   | 8.53          | Clay                 | Clay                |          |
| 8.53     | 19.81  | 11.28         | Gravel Water Supply  | Gravel              |          |

## Remarks

10/02/2006: Nat Carling, 10-Feb-2006: Marked works as abandoned, due to GW802644 being drilled to replace this bore.

\*\*\* End of GW008211 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW802644

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore

Work Status: Replacement

Construct.Method: Rotary Mud

Owner Type: Private

Commenced Date:

Completion Date: 17/12/2005

Final Depth: 20.00 m

Drilled Depth: 30.00 m

Contractor Name: Ross Robert SMITH

Driller: Ross Robert Smith

Assistant Driller:

Property:

GWMA:

GW Zone:

Standing Water Level (m): 9.970

Salinity Description:

Yield (L/s): 2.500

### Site Details

Site Chosen By:

County  
Form A: LINCOLN  
Licensed:

Parish  
WARRIE

Cadastre  
13//258406

Region: 80 - Macquarie-Western

River Basin: 421 - MACQUARIE RIVER  
Area/District:

CMA Map: 8633-3N

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation Source: Unknown

Northing: 6419664.000  
Easting: 654083.000

Latitude: 32°20'57.6"S  
Longitude: 148°38'14.7"E

GS Map: -

MGA Zone: 55

Coordinate Source: GIS - Geogra

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

| Hole | Pipe | Component | Type                | From (m) | To (m) | Outside Diameter (mm) | Inside Diameter (mm) | Interval | Details                                                         |
|------|------|-----------|---------------------|----------|--------|-----------------------|----------------------|----------|-----------------------------------------------------------------|
| 1    |      | Hole      | Hole                | 0.00     | 20.00  | 200                   |                      |          | Rotary Mud                                                      |
| 1    |      | Hole      | Hole                | 20.00    | 30.00  | 127                   |                      |          | Rotary Mud                                                      |
| 1    |      | Annulus   | Waterworn/Rounded   | 0.00     | 20.00  | 200                   | 168                  |          | Graded                                                          |
| 1    | 1    | Casing    | Pvc Class 9         | 0.00     | 18.00  | 168                   | 156                  |          | Seated on Bottom, Glued                                         |
| 1    | 1    | Opening   | Slots - Horizontal  | 12.00    | 18.00  | 168                   |                      | 0        | Mechanically Slotted, PVC Class 9, Glued, SL: 50.0mm, A: 1.00mm |
| 1    | 1    | Opening   | Screen - Wedge Wire | 18.00    | 20.00  | 168                   |                      | 0        | Stainless Steel 304, Packer, A: 0.80mm                          |

### Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|----------|------------|------------|-------------|----------------|---------------|-----------------|
| 12.00    | 20.00  | 8.00          | Unknown  | 9.97       | 10.60      | 2.50        |                | 06:00:00      |                 |

### Drillers Log

| From (m) | To (m) | Thickness (m) | Drillers Description | Geological Material | Comments |
|----------|--------|---------------|----------------------|---------------------|----------|
| 0.00     | 1.00   | 1.00          | Topsoil              | Topsoil             |          |
| 1.00     | 8.50   | 7.50          | Clay, brown          | Clay                |          |
| 8.50     | 12.00  | 3.50          | Gravel, dry          | Gravel              |          |
| 12.00    | 15.00  | 3.00          | Gravel, clean        | Gravel              |          |
| 15.00    | 18.00  | 3.00          | Sand, fine & Gravel  | Sand                |          |
| 18.00    | 20.00  | 2.00          | Gravel               | Gravel              |          |
| 20.00    | 30.00  | 10.00         | Shale, grey          | Shale               |          |

### Remarks

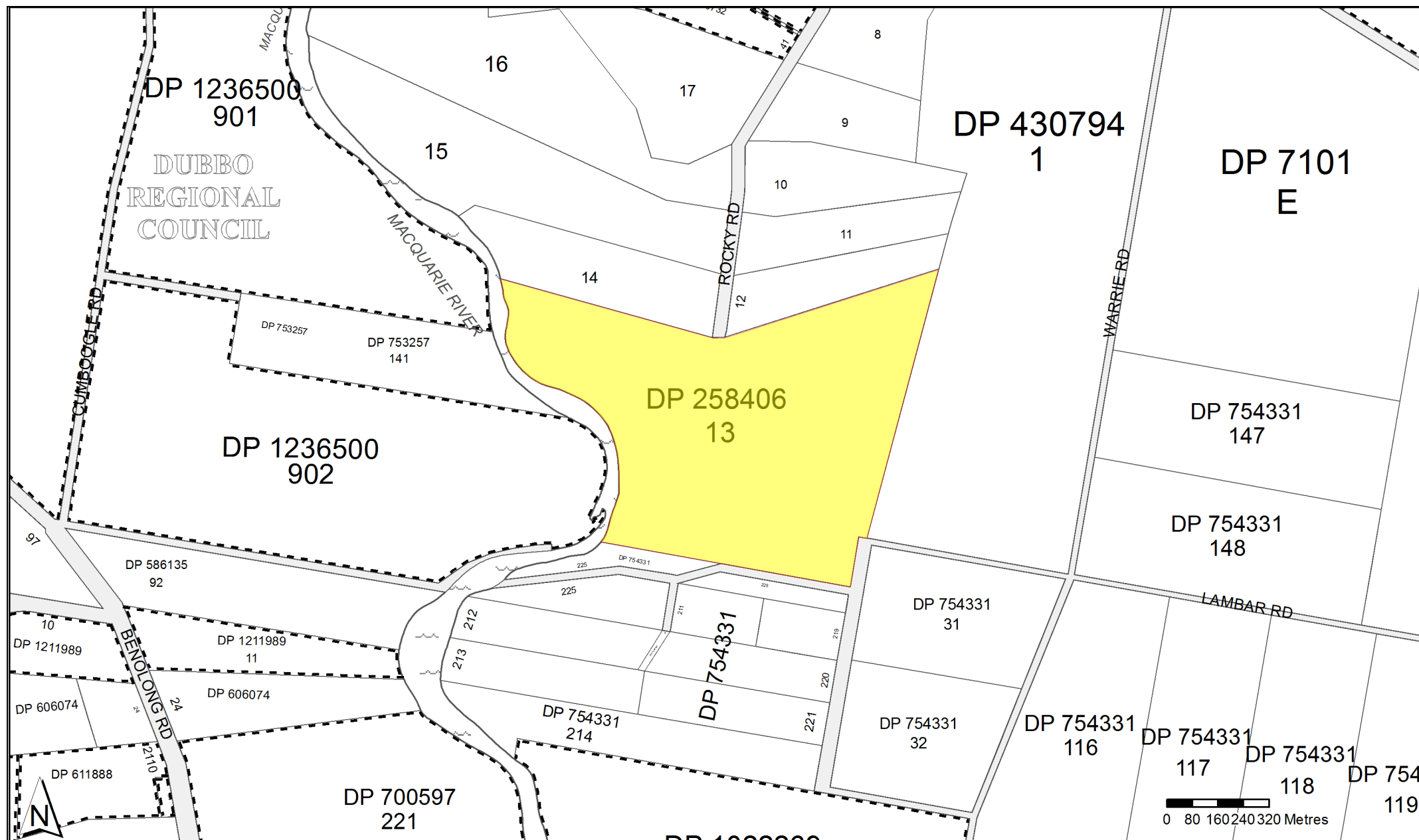
17/12/2005: Form A Remarks:  
Nat Carling, 10-Feb-2006: Coordinates based on location map provided by driller.

\*\*\* End of GW802644 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# APPENDIX B

## TITLE RECORDS





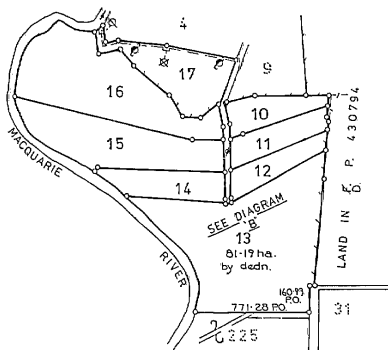
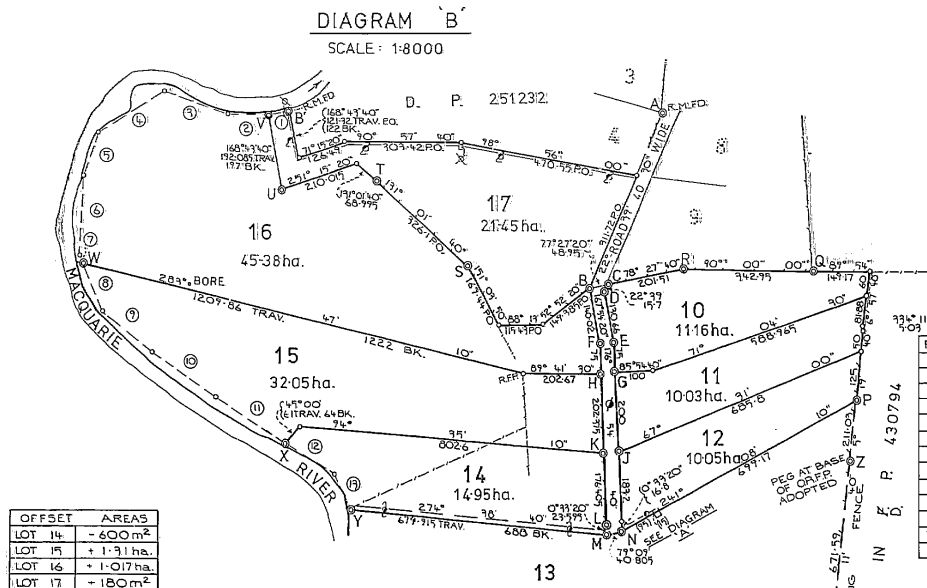
Signatures and seals only.

*Approved by*  
*R. M. Bell*  
17 JUN 1978  
PLAN OF SUBDIVISION  
*K. B. Robinson*

D. 5.5.87OP

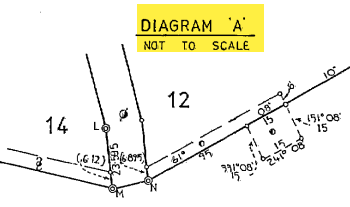
Council Clerk's Certificate  
I hereby certify that:  
(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and  
(b) the requirements of section 34B of the Metropolitan Water, Sewerage and Drainage Act 1954, as amended, (Hunter, District Water, Sewerage, and Drainage Act, 1936, as amended)  
have been complied with by the applicant in relation to the proposed SUBDIVISION  
(Insert "new road", "subdivision" or "consolidated lot" set out herein)  
Subdivision No. 159  
Date 15.02.77  
(Signature) *[Signature]*  
Council Clerk  
\*This part of certificate to be deleted where the application is only for a consolidated lot or the opening of a new road or where the land to be subdivided is wholly outside the area of operations of the Metropolitan Water, Sewerage and Drainage Board and the Hunter District Water Board.  
Delete if inapplicable.

M.P.D.



| REFERENCE       | MARK      | SCHEDULE             |
|-----------------|-----------|----------------------|
| A 287° 01' 00"  | G. I. ROD | 1.005 (FD) DP 251232 |
| B 292° 52' 00"  | G. I. ROD | 1.99 (FD) DP 251232  |
| C 22° 39' 00"   | G. I. ROD | 1 (FD) DP 251232     |
| D 99° 54' 00"   | G. I. ROD | 0.99                 |
| E 82° 25' 00"   | G. I. ROD | 1                    |
| F 242° 25' 00"  | G. I. ROD | 1.015                |
| G 85° 55' 00"   | G. I. ROD | 1                    |
| H 269° 41' 00"  | G. I. ROD | 1                    |
| J 67° 31' 00"   | G. I. ROD | 1                    |
| K 266° 55' 00"  | G. I. ROD | 1.05                 |
| L 268° 44' 00"  | G. I. ROD | 1.005                |
| M 270° 39' 00"  | G. I. ROD | 1                    |
| N 61° 08' 00"   | G. I. ROD | 1                    |
| P 241° 08' 00"  | G. I. ROD | 1                    |
| Q 319° 12' 00"  | G. I. ROD | 1.04 (FD)            |
| R 83° 07' 00"   | G. I. ROD | 1.42 (FD)            |
| S 243° 48' 00"  | G. I. ROD | 0.76 (FD)            |
| T 221° 57' 00"  | G. I. ROD | 0.67 (FD)            |
| U 948° 44' 00"  | IRON BOLT | 1                    |
| V 948° 44' 00"  | IRON BOLT | 1                    |
| W 203° 47' 00"  | G. I. ROD | 1                    |
| X 225° 00' 00"  | G. I. ROD | 1                    |
| Y 274° 39' 00"  | G. I. ROD | 1                    |
| Z 95° 08' 00"   | G. I. ROD | 1                    |
| A' 97° 26' 00"  | G. I. ROD | 1.205                |
| B' 278° 25' 00" | G. I. ROD | 0.97 (FD) DP 251232  |

| REFERENCE TO RIVER TRAVERSE |                      |
|-----------------------------|----------------------|
| 1                           | 81° 00' 00" 60.05    |
| 2                           | 91° 35' 10" 106.58   |
| 3                           | 109° 14' 10" 177.67  |
| 4                           | 59° 18' 20" 201.95   |
| 5                           | 19° 27' 10" 118.44   |
| 6                           | 2° 58' 00" 197.76    |
| 7                           | 336° 05' 00" 9.79    |
| 8                           | 336° 05' 00" 147.68  |
| 9                           | 307° 49' 10" 166.42  |
| 10                          | 304° 02' 00" 202.77  |
| 11                          | 302° 20' 45" 220.15  |
| 12                          | 300° 35' 00" 151.905 |
| 13                          | 333° 26' 10" 99.11   |



SEE DEALINGS 058461, 070455, 0147626, 0176024,  
0187333, 0268763, 0584635, 0726214 & 0834879

✓ EASEMENT FOR WATER SUPPLY 4 WIDE  
✓ EASEMENT FOR WATER SUPPLY 8 WIDE  
✗ EASEMENT FOR WATER SUPPLY 15 WIDE

✓ EASEMENT FOR WATER SUPPLY 6-1 WIDE  
✓ EASEMENTS FOR WATER SUPPLY 6 AND 15 WIDE  
✓ ROAD 40 WIDE

D. P. 258406

Registered: 15-7-1978

C.A.: N° 459 of 23-9-1971

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: PARISH

Last Plan: D.P. 251232

PLAN OF SUBDIVISION OF  
LOTS 5 & 10 IN D. P.  
251232

Reduction Ratio: 1:20000  
Lengths are in metres.

Mun./Shire City: TALBRAGAR

Locality: DUBBO

Parish: WARRIE

County: LINCOLN

This is sheet 1 of my plan in sheets.  
(Delete if inapplicable).

RICHARD ROSS LANGFORD  
of DUBBO N.S.W.  
a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey registered in this plan is accurate and has been made "1/1-by-me (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1932, and was completed on 1/1/77.

Signature: *[Signature]*  
Surveyor registered under Surveyors Act, 1929, as amended.  
Datum Line of Altitude: "A. B."  
Strike out either 11) or 12). Insert date of survey.

Panel for use only for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user.

IT IS INTENDED TO DEDICATE THE ROAD 40 WIDE AS PUBLIC ROAD TO CREATE, PURSUANT TO SECTION 50B OF THE CONVEYANCING ACT, 1919:-

- EASEMENT FOR WATER SUPPLY 6-1 WIDE.
- EASEMENT FOR WATER SUPPLY 6 WIDE.
- EASEMENT FOR WATER SUPPLY 15 WIDE.
- RESTRICTIONS AS TO USER.

SURVEYOR'S REFERENCE: 75/109B

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

1, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 28th day of September, 1979

# CERTIFICATE OF TITLE

TORRENS TITLE  
Register

NEW SOUTH WALES

REAL PROPERTY ACT, 1900

Vol. **13008** Fol. **101**

Appln. No.13970 (part)

Prior Title Vol.5484 Fol.231



**CANCELLED**

**EDITION ISSUED**

See new edition

**15 3 1976**

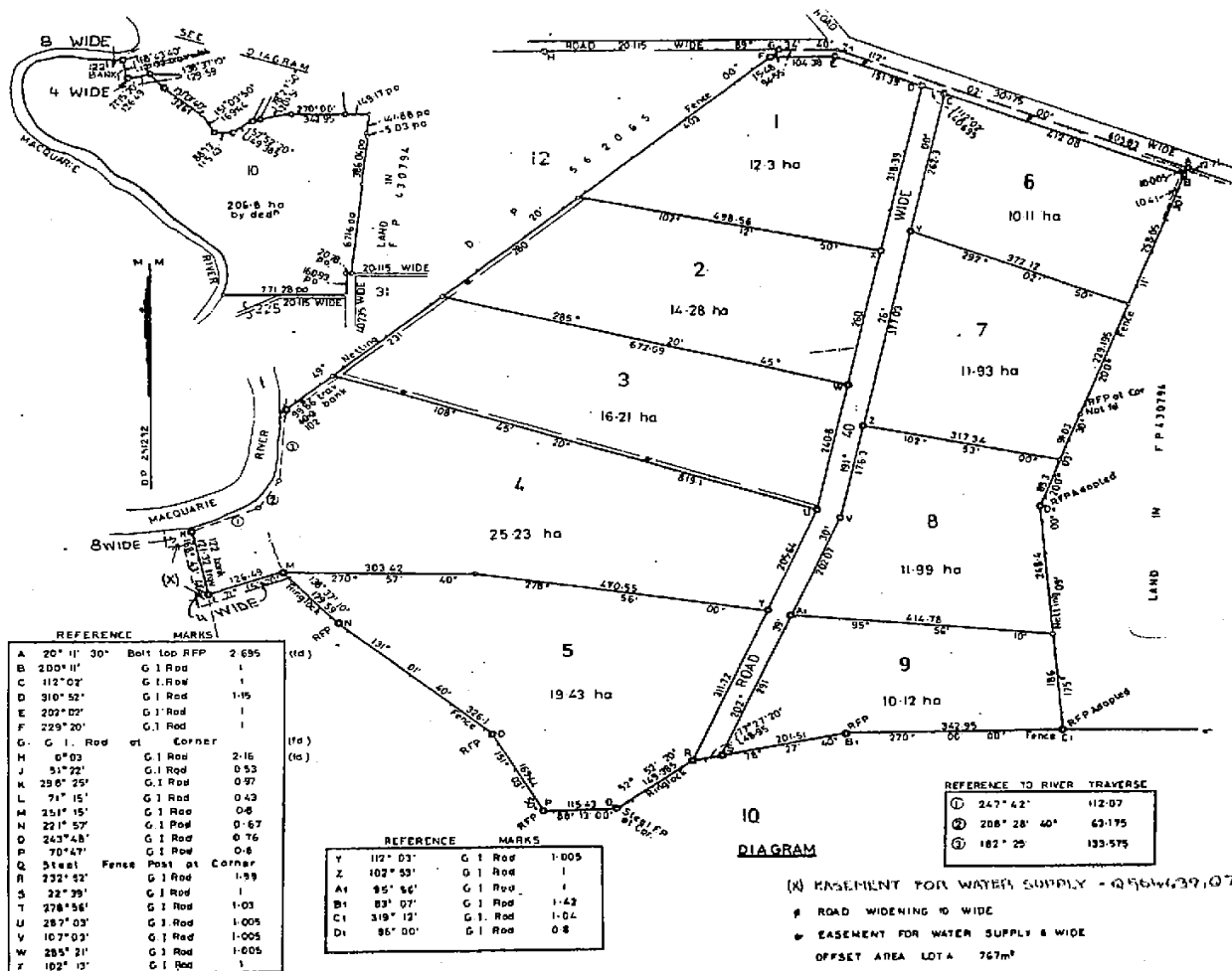
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

*Jawataon*  
Registrar General.



## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



## ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 10 in Deposited Plan 251232 at Dubbo in the Shire of Talbragar Parish of Warrie and County of Lincoln being part of Portion 95 granted to Edward Brooking Cornish on 14-11-1861, part of Portion 9 granted by Crown Grant Volume 426 Folio 19, part of Portion 56 granted by Crown Grant Volume 939 Folio 73 and Portions 210 and 218 granted by Crown Grants Volume 1001 Folios 105 and 106 respectively. EXCEPTING THEREOUT the minerals reserved by Crown Grants Volume 939 Folio 73 and Volume 1001 Folios 105 and 106.

## FIRST SCHEDULE

**HOWARD SYDNEY WYE of Dubbo, Farmer and Grazier.**

## SECOND SCHEDULE

- Reservations and conditions, if any, contained in the Crown Grants above referred to.
- Easement for Water Supply appurtenant to the land above described created by the registration of Deposited Plan 251232. See P548411.

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

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

Q58461  
 Q70455  
 Q187333  
 Q176024  
 Q268763  
 CT22-11-77  
 Q56454  
 Q72624  
 Q83825026

# FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR

INSTRUMENT

NATURE

NUMBER

DATE

ENTERED

Signature of Registrar General

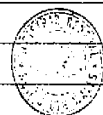
CANCELLED

See new edition issued 13-11-1977

Vol 13008 Fol 101

vide Q 838250.

*[Signature]*



REGISTRAR GENERAL

## SECOND SCHEDULE (continued)

NATURE

INSTRUMENT  
NUMBER

DATE

PARTICULARS

ENTERED

Signature of Registrar General

CANCELLATION

~~Transfer Q58461 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 97 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977  
25-5-1977~~

~~*[Signature]*~~

~~Transfer Q70455 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 97 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977  
25-5-1977~~

~~*[Signature]*~~

~~Transfer Q147626 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 98 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977~~

~~*[Signature]*~~

~~Transfer Q176024 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 97 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977~~

~~*[Signature]*~~

~~Transfer Q187333 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 100 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977~~

~~*[Signature]*~~

~~Transfer Q268763 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 99 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~14-9-1977~~

~~*[Signature]*~~

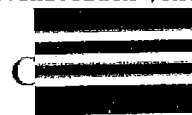
~~Transfer Q564639 Easement for Water Supply (as more fully set out in the said instrument) appurtenant to the land comprised in Certificate of Title Vol. 13008 Fol 96 affecting that part of the land within described shown as 4 wide and 8 wide in the plan hereon~~

~~3-4-1978~~

~~*[Signature]*~~

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

NEW SOUTH WALES



# STATE OF TITLE

PROPERTY ACT, 1900



13008101

Appln No 13970 (part)

Prior Title Vol. 5484 Fol. 231



Vol. 13008 Fol. 101

EDITION ISSUED

14 11 1978

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

*[Signature]*  
Registrar General.



## ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 10 in Deposited Plan 251232 at Dubbo in the Shire of Talbragar Parish of Warrie and County of Lincoln being part of Portion 95 granted to Edward Brooking Cornish on 14-11-1861 part of Portion 9 granted by Crown Grant Volume 426 Folio 19 part of Portion 56 granted by Crown Grant Volume 939 Folio 73 and Portions 210 and 218 granted by Crown Grants Volume 1001 Folios 105 and 106 respectively. EXCEPTING THEREOUT the minerals reserved by Crown Grants Volume 939 Folio 73 and Volume 1001 Folios 105 and 106.

## FIRST SCHEDULE

HOWARD SYDNEY WYE of Dubbo, Farmer and Grazier.

## SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. DP251232 Easement for water supply **appurtenant** to the land above described affecting the land shown so burdened in the plan hereon (see P548411).
3. ~~Q58464 Easements for water supply affecting the land shown so burdened in the plan hereon.~~  
~~Q70455)~~  
~~Q147626)~~  
~~Q176024)~~  
~~Q187333)~~  
~~Q268763)~~  
~~Q564639) Released 22/9/78.~~
3. *SE* Q58464 Easements for water supply affecting the land shown so burdened in the plan hereon.  
*8-9-78* Q70455  
Q147626  
Q176024  
Q187333  
Q268763  
Q564639 Released 22/9/78.

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

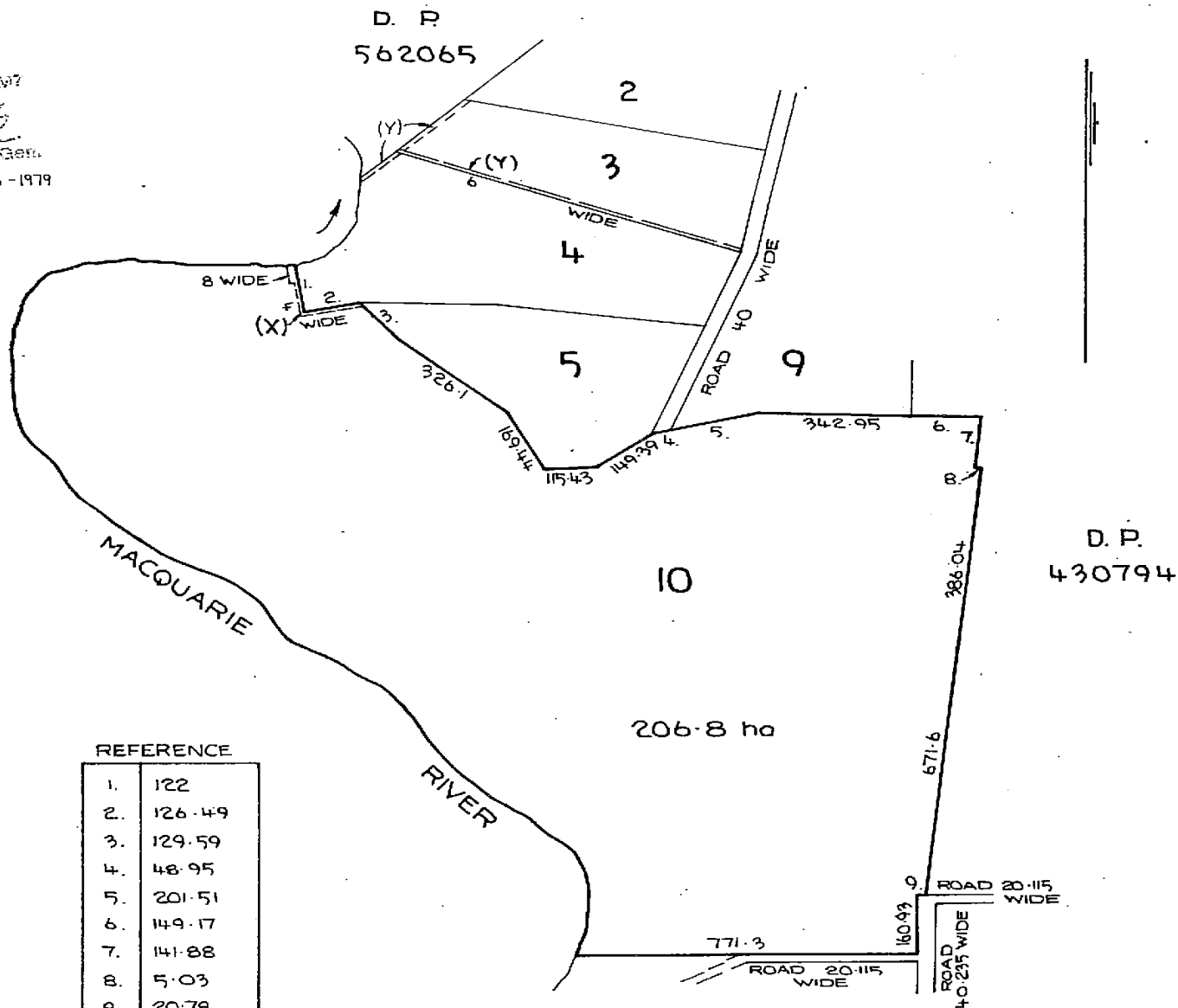
WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.



## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

1979M7

Reg. Gen.  
8-8-1979

(X) EASEMENT FOR WATER SUPPLY

(Y) EASEMENT FOR WATER SUPPLY

Q 58461  
Q 70455  
Q 147626  
Q 176024  
Q 187333  
Q 268763  
Q 564639  
Q 726214

D.P. 251232

D.P. 251232 (P548411)

Q838250

REDUCTION RATIO 1:12500

FIRST SCHEDULE (continued)

| FIRST SCHEDULE (continued)                                                                                                                                                                                                                                         |                                                                                                                                               |        |            |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|--------------------------------|
| REGISTERED PROPRIETOR                                                                                                                                                                                                                                              | INSTRUMENT                                                                                                                                    |        | REGISTERED | Signature of Registrar General |
|                                                                                                                                                                                                                                                                    | NATURE                                                                                                                                        | NUMBER |            |                                |
| <p>deed is cancelled as to <u>Whole E. Road</u></p> <p>New Certificate(s) of Title have issued on <u>16-10-87</u></p> <p>lots in <u>Deposited Plan DP 258406</u> as follows:</p> <p>Lots <u>10 to 17</u> Vol. <u>13974</u> pp. <u>176 to 183</u> respectively.</p> | <p>The residue of land in the <u>road</u> comprises:</p> <p><i>[Signature]</i></p> <p>REGISTERED PROPRIETOR</p>                               |        |            |                                |
| <p><i>[Signature]</i></p> <p>REGISTRAR GENERAL</p> <p><i>[Circular Stamp: SOUTH AFRICA]</i></p>                                                                                                                                                                    | <p>NEW CERTIFICATE(S) OF TITLE ISSUED ON <u>DP 258406</u></p> <p>NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO SURVEY DRAFTING BRANCH.</p> |        |            |                                |

## SECOND SCHEDULE (continued)

[illegible]

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

REGISTERED PROPRIETOR

[illegible]

## INSTRUMENT

[illegible]

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





# CERTIFICATE OF TITLE



13974179

NEW SOUTH WALES

LAND PROPERTY ACT, 1900

Appln. No.13970 (part)

Prior Title Vol.13008 Fol.101

Vol. 13974 Fol. 179

EDITION ISSUED

22 10 1979



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

*[Signature]*

Registrar General.



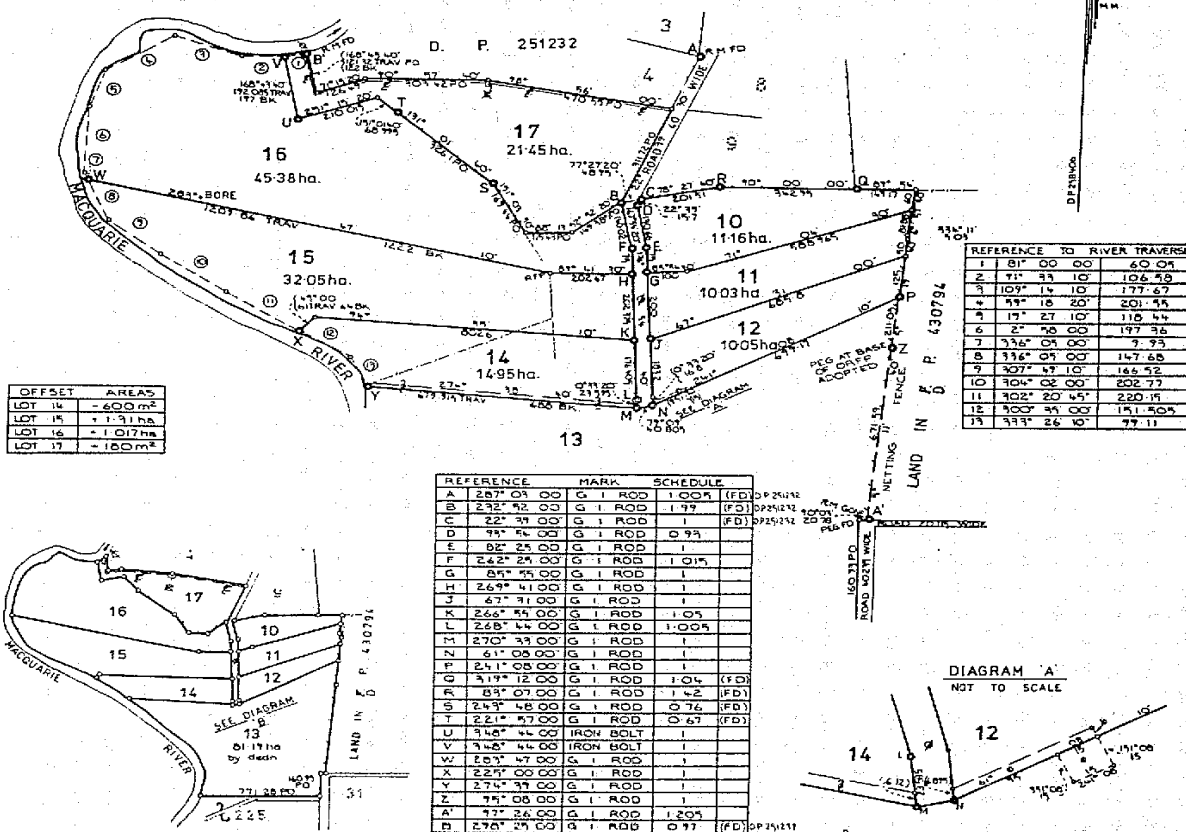
## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

**CANCELLED**

DIAGRAM 'B'

SEE AUTO FOLIO





FIRST SCHEDULE (continued)

[illegible]

## SECOND SCHEDULE (continued)

[illegible]

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



SEARCH DATE

15/9/2023 2:08PM

FOLIO: 13/258406

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 13974 FOL 179

| Recorded<br>----- | Number<br>----- | Type of Instrument<br>----- | C.T. Issue<br>-----               |
|-------------------|-----------------|-----------------------------|-----------------------------------|
| 5/6/1987          |                 | TITLE AUTOMATION PROJECT    | LOT RECORDED<br>FOLIO NOT CREATED |
| 25/9/1987         |                 | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED<br>CT NOT ISSUED    |
| 6/7/2022          | AS282039        | TRANSFER                    |                                   |
| 6/7/2022          | AS282040        | MORTGAGE                    | EDITION 1                         |

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



FOLIO: 13/258406

| SEARCH DATE | TIME    | EDITION NO | DATE     |
|-------------|---------|------------|----------|
| 15/9/2023   | 2:05 PM | 1          | 6/7/2022 |

LAND

LOT 13 IN DEPOSITED PLAN 258406  
AT DUBBO  
LOCAL GOVERNMENT AREA DUBBO REGIONAL  
PARISH OF WARRIE COUNTY OF LINCOLN  
TITLE DIAGRAM DP258406

FIRST SCHEDULE

VELO HOLDINGS PTY LTD

(T AS282039)

SECOND SCHEDULE (6 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP251232 EASEMENT FOR WATER SUPPLY APPURTENANT TO THE LAND ABOVE DESCRIBED
- 3 DP258406 EASEMENT FOR WATER SUPPLY AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 4 DP258406 RESTRICTION(S) ON THE USE OF LAND
- 5 LAND EXCLUDES MINERALS BY THE CROWN GRANTS VOL.939 FOL.73,VOL.1001 FOLS 105 & 106
- 6 AS282040 MORTGAGE TO SUNCORP-METWAY LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF 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: - 20L Rocky Road, Dubbo**

**Description: - Lot 13 D.P. 258406**

| <b><u>Date of Acquisition and term held</u></b> | <b><u>Registered Proprietor(s) &amp; Occupations where available</u></b>                                                          | <b><u>Reference to Title at Acquisition and sale</u></b>                                              |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 20.12.1913<br>(1913 to 1935)                    | Thomas Draper Palmer (Farmer & Grazier)                                                                                           | Volume 2422 Folio 187                                                                                 |
| 02.04.1935<br>(1935 to 1944)                    | Florence Elizabeth Palmer (Widow)<br>George Thomas Bryan Palmer (Farmer & Grazier)<br>(Transmission Application not investigated) | Volume 2422 Folio 187                                                                                 |
| 20.12.1944<br>(1944 to 1949)                    | John Mankin Mackay (Grazier)                                                                                                      | Volume 2422 Folio 187<br>Now<br>Volume 5484 Folio 231                                                 |
| 01.12.1949<br>(1949 to 1952)                    | Thomas Theyre Weigall (Grazier)                                                                                                   | Volume 5484 Folio 231                                                                                 |
| 28.02.1952<br>(1952 to 1952)                    | Dorothy Clare Weigall (Widow)<br>(Transmission Application not investigated)                                                      | Volume 5484 Folio 231                                                                                 |
| 18.04.1952<br>(1952 to 1958)                    | Sydney Denson Wye (Grazier)                                                                                                       | Volume 5484 Folio 231                                                                                 |
| 11.07.1958<br>(1958 to 2022)                    | Howard Sydney Wye (Farmer & Grazier)                                                                                              | Volume 5484 Folio 231<br>Then<br>Volume 13008 Folio 101<br>Volume 13974 Folio 179<br>Now<br>13/258406 |
| 06.07.2022<br>(2022 to date)                    | # Velo Holdings Pty Ltd                                                                                                           | 13/258406                                                                                             |

**# Denotes current registered proprietor**

**Leases: - NIL**

**Easements: -**

- 16.07.1979 (D.P. 258406) Easement for Water Supply.

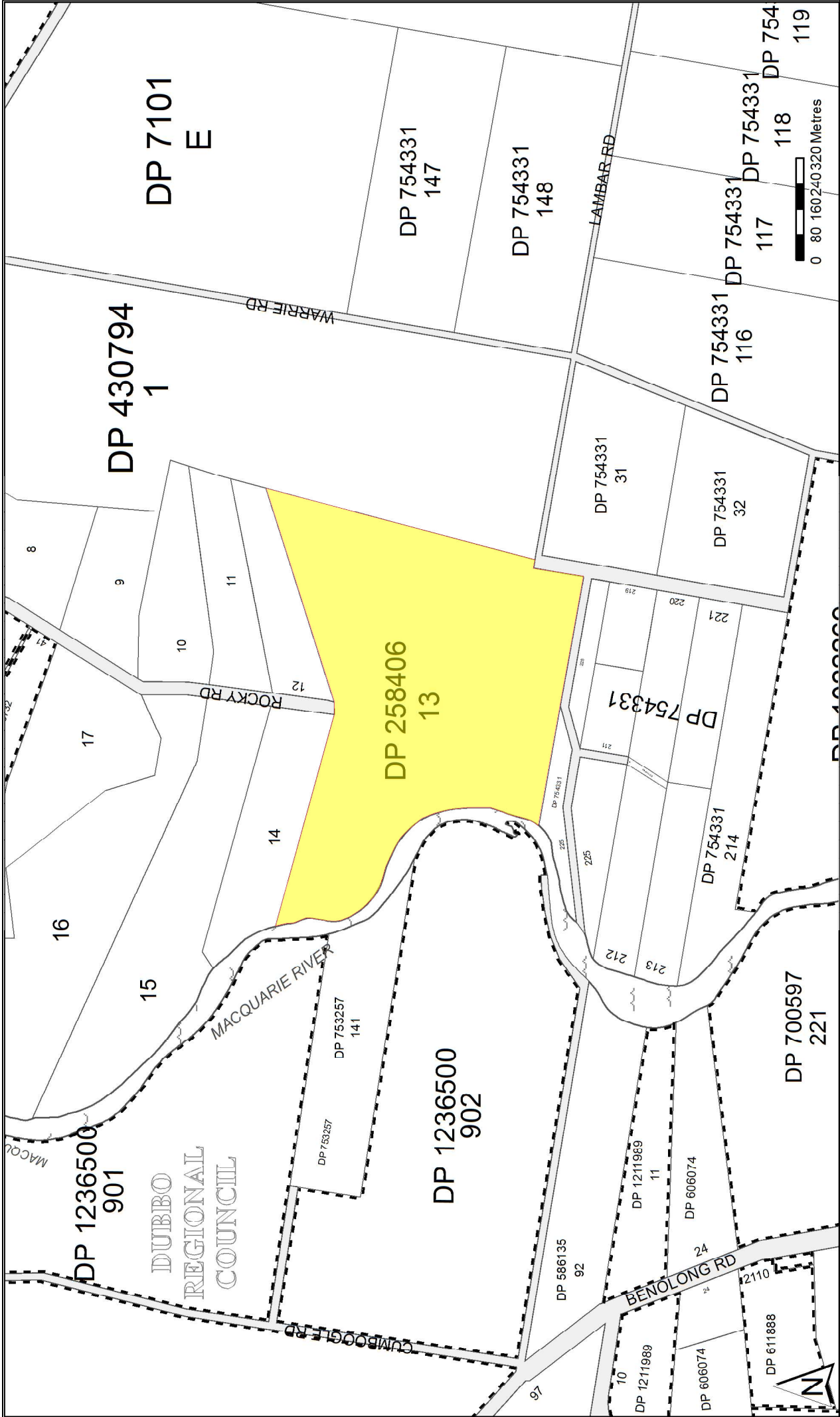
Yours Sincerely  
Mark Groll  
16 September 2023



**Cadastral Records Enquiry Report : Lot 13 DP 258406**

Locality : DUBBO  
LGA : DUBBO REGIONAL  
Parish : WARRIE  
County : LINCOLN

Ref : 20L ROCKY RD DUBBO 2830







# CERTIFICATE OF TITLE

TORRENS TITLE  
Register

NEW SOUTH WALES

REAL PROPERTY ACT, 1900

Vol. **13008** Fol. **101**

Appln. No.13970 (part)

Prior Title Vol.5484 Fol.231



CANCELLED

EDITION ISSUED

See new edition

15 3 1976

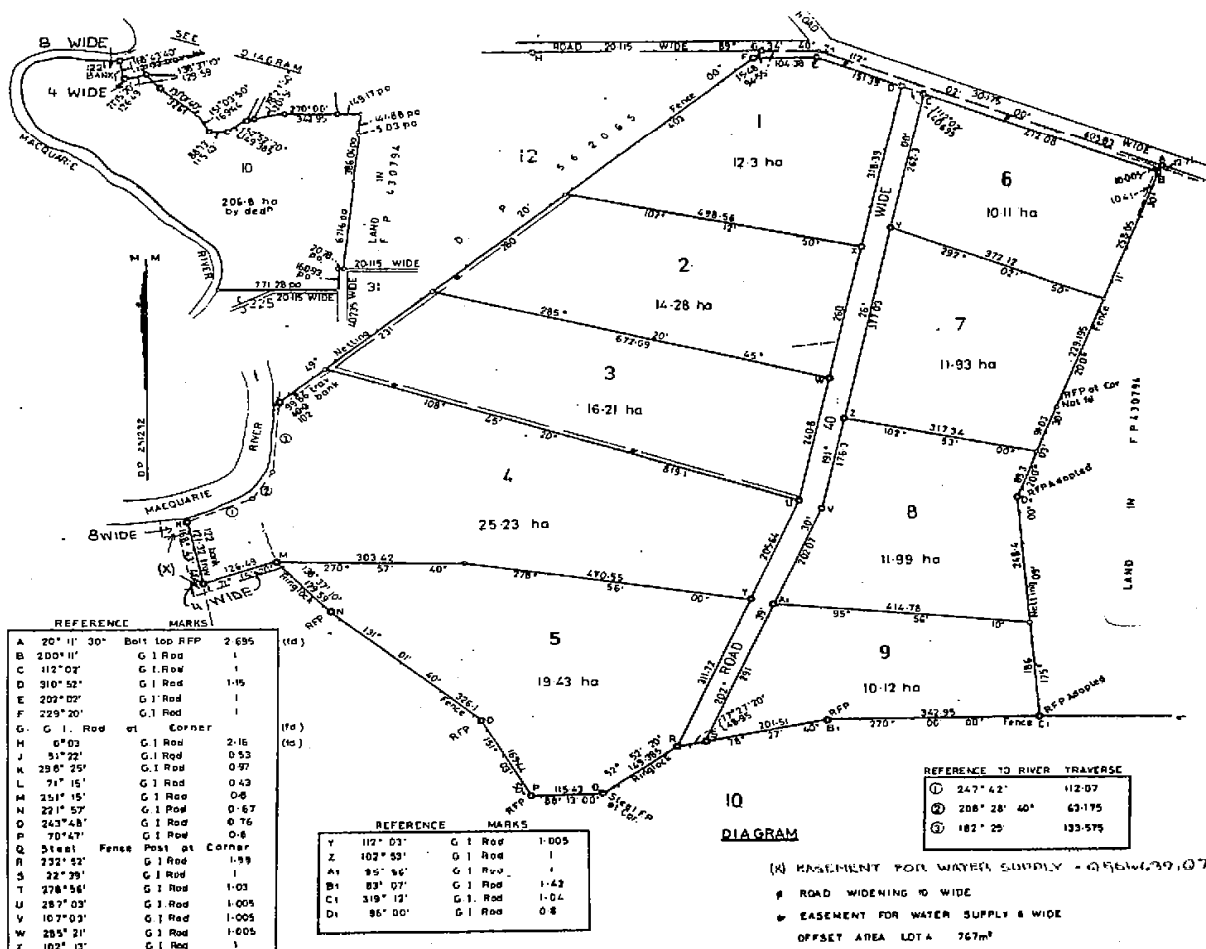
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

*Lawson*  
Registrar General.



## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



## ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 10 in Deposited Plan 251232 at Dubbo in the Shire of Talbragar Parish of Warrie and County of Lincoln being part of Portion 95 granted to Edward Brooking Cornish on 14-11-1861, part of Portion 9 granted by Crown Grant Volume 426 Folio 19, part of Portion 56 granted by Crown Grant Volume 939 Folio 73 and Portions 210 and 218 granted by Crown Grants Volume 1001 Foliros 105 and 106 respectively. EXCEPTING THEREOUT the minerals reserved by Crown Grants Volume 939 Folio 73 and Volume 1001 Foliros 105 and 106.

## FIRST SCHEDULE

HOWARD SYDNEY WYE of Dubbo, Farmer and Grazier.

## SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. Easement for Water Supply appurtenant to the land above described created by the registration of Deposited Plan 251232. See P548411.

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

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

REGISTERED PROPRIETOR

~~CANCELLED~~

See new edition issued 13-11-1972.  
 401-3008-501-101  
 vide Q 838250.

REGISTRAR GENERAL

[illegible]

## SECOND SCHEDULE (continued)

[illegible]

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



NEW SOUTH WALES

**C** **STATE OF TITLE**  
PROPERTY ACT, 1900



13008101

Vol. **13008** Fol. **101**

Appln No 13970 (part)

Prior Title Vol. 5484 Fol. 231



EDITION ISSUED

14 11 1978

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

Registrar General.



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 10 in Deposited Plan 251232 at Dubbo in the Shire of Talbragar Parish of Warrie and County of Lincoln being part of Portion 95 granted to Edward Brooking Cornish on 14-11-1861 part of Portion 9 granted by Crown Grant Volume 426 Folio 19 part of Portion 56 granted by Crown Grant Volume 939 Folio 73 and Portions 210 and 218 granted by Crown Grants Volume 1001 Folios 105 and 106 respectively. EXCEPTING THEREOUT the minerals reserved by Crown Grants Volume 939 Folio 73 and Volume 1001 Folios 105 and 106.

FIRST SCHEDULE

HOWARD SYDNEY WYE of Dubbo, Farmer and Grazier.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. DP251232 Easement for water supply appurtenant to the land above described affecting the land shown so burdened in the plan hereon (see P548411).
3. ~~Q58461) Easements for water supply affecting the land shown so burdened in the plan hereon.~~  
~~Q70455)~~  
~~Q147626)~~  
~~Q176024)~~  
~~Q187333)~~  
~~Q268763)~~  
~~Q564639) Released 2004500.~~
3. ~~Q58461~~ Easements for water supply affecting the land shown so burdened in the plan hereon.  
~~Q70455~~  
~~Q147626~~  
~~Q176024~~  
~~Q187333~~  
~~Q268763~~  
~~Q564639) Released 2004500.~~

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

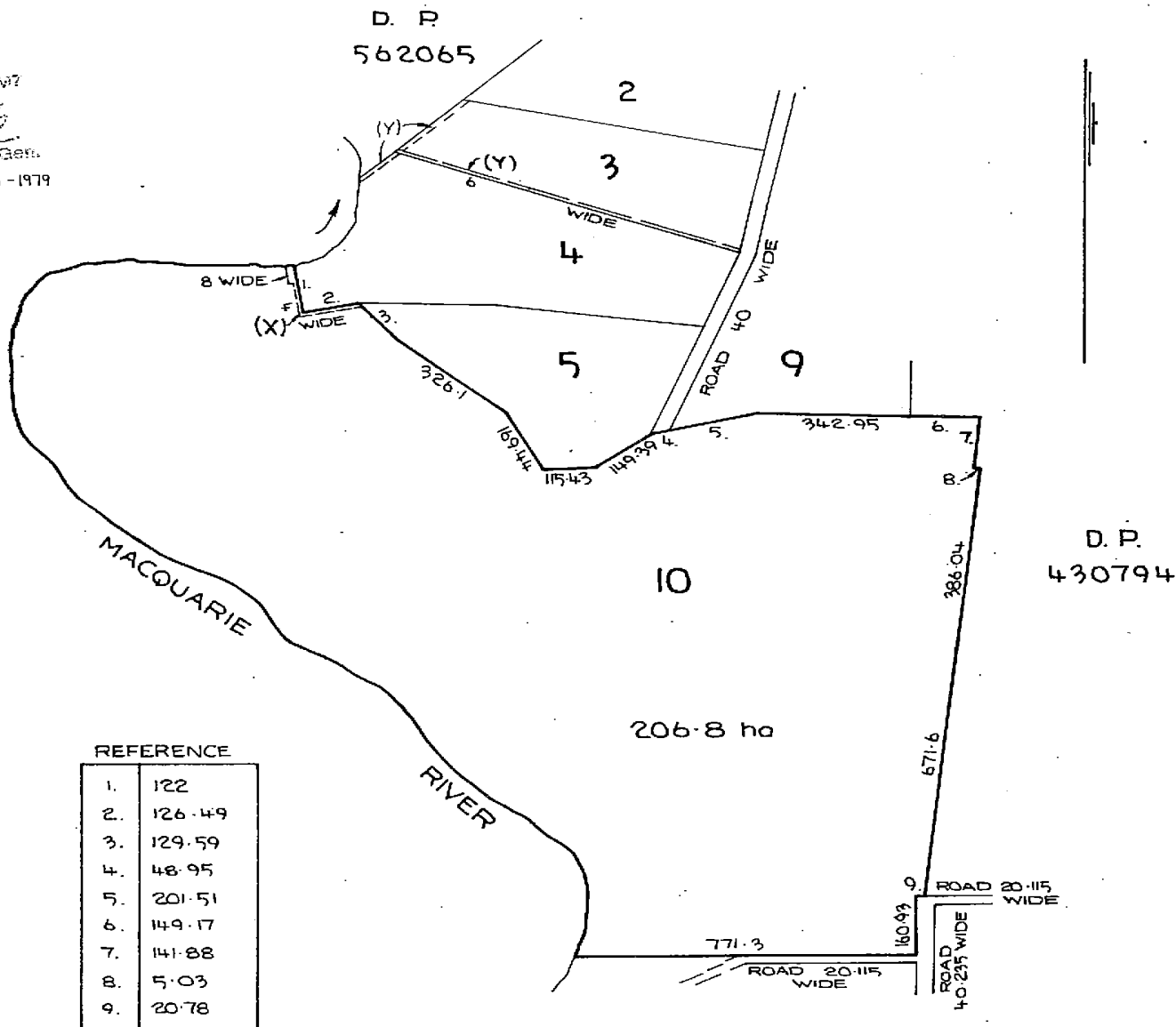
WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.



## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

1979M7

Reg. Gen.  
8-8-1979

(X) EASEMENT FOR WATER SUPPLY

(Y) EASEMENT FOR WATER SUPPLY

Q 58461  
Q 70455  
Q 147626  
Q 176024  
Q 187333  
Q 268763  
Q 564639  
Q 726214

D. P. 251232  
D. P. 251232 (P548411)

Q838250

REDUCTION RATIO 1:12500

REGISTERED PROPRIETOR

Deed is cancelled as to ~~Whole Eas Road~~

Many Certificates of Title have been issued on 16-10-1979

lots in Reisterstown Pa. 258406 as follows:

OTS 1027 VO 13974 176683 respectively.

The residue of 104 in ... comprises

NEW CERTIFICATE(S) OF TITLE ISSUING ON DP258406  
 NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO  
 SURVEY DRAFTING BRANCH.

*[Faint handwritten notes or bleed-through from the reverse side of the page.]*

SECOND SCHEDULE (continued)

| INSTRUMENT |  | NUMBER |
|------------|--|--------|
| NATURE     |  |        |

## PARTICULARS

|      |          |                                                                                          |
|------|----------|------------------------------------------------------------------------------------------|
| 1864 | Q 22, 24 | The vessel for Water should be covered with a Tarp. The ground underneath and all around |
|------|----------|------------------------------------------------------------------------------------------|

For the above mentioned on Vol. 100 of the Volume 13008 Feb 93 of the 13008

view of the fact that the denitrified storm

interests created pursuant to Section 833 Conveyance

by the registration of Deposited Plan 258406

The interest of the Council of the Shire of Talbragar in the new road known

904657151

Signature of  
Registrar General

REGISTERED

CANCELLATION

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

REGISTERED PROPRIETOR

SECOND SCHEDULE (continued)

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



13974179

NEW SOUTH WALES

# CERTIFICATE OF TITLE

LAND PROPERTY ACT, 1900

Appln. No.13970 (part)

Prior Title Vol.13008 Fol.101



Vol. 13974 Fol. 179

EDITION ISSUED

22 10 1979

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

*[Signature]*

Registrar General.



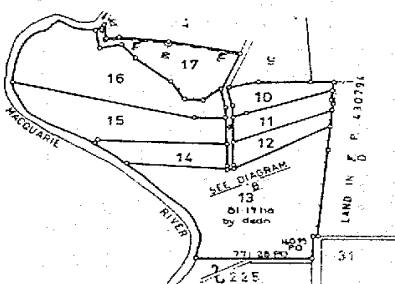
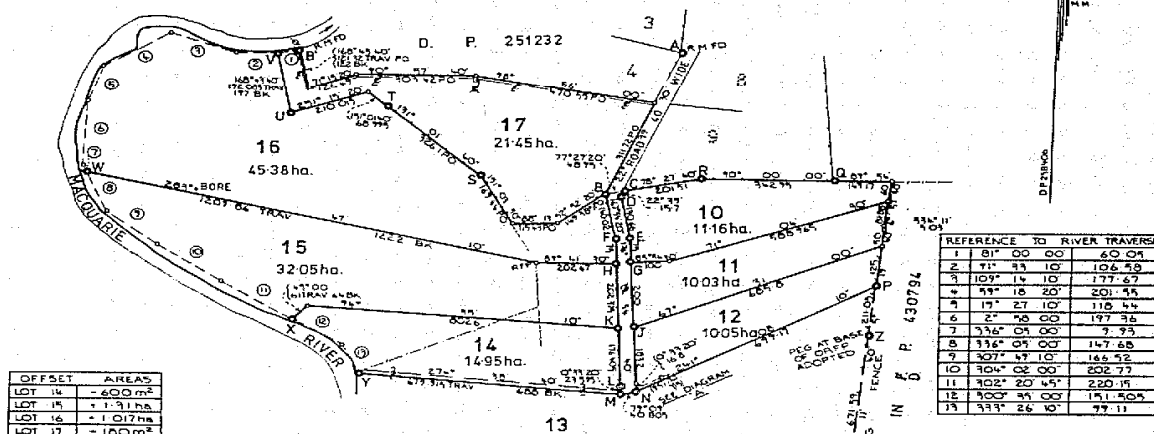
## PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

**CANCELLED**

SEE AUTO FOLIO

DIAGRAM 'B'



## ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 13 in Deposited Plan 258406 at Dubbo in the Shire of Talbragar Parish of Warrie and County of Lincoln being part of Portion 95 granted to Edward Brooking Cornish on 14-11-1861, part of Portion 9 granted by Crown Grant Volume 416 Folio 19, part of Portion 56 granted by Crown Grant Volume 939 Folio 73, part of Portions 210 and 218 granted by Crown Grants Volume 1001 Folios 105 and 106. EXCEPTING THEREOUT the minerals reserved by the Crown Grants Volume 939 Folio 73, Volume 1001 Folios 105 and 106.

## FIRST SCHEDULE

HOWARD SYDNEY WYE of Dubbo, Farmer and Grazier.

## SECOND SCHEDULE

- GRY 1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
- EF2 2. DP251232 Easement for water supply appurtenant to the land above described affecting the piece of land shown so burdened in Deposited Plan 251232 - (see P548411).
- EF(SB) 3. DP258406 Easement for water supply affecting the part of the land above described shown so burdened in Deposited Plan 258406.
- RU 4. DP258406 Restrictions as to user.

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

[illegible][illegible]

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



SEARCH DATE

15/9/2023 2:08PM

FOLIO: 13/258406

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 13974 FOL 179

| Recorded<br>----- | Number<br>----- | Type of Instrument<br>----- | C.T. Issue<br>-----               |
|-------------------|-----------------|-----------------------------|-----------------------------------|
| 5/6/1987          |                 | TITLE AUTOMATION PROJECT    | LOT RECORDED<br>FOLIO NOT CREATED |
| 25/9/1987         |                 | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED<br>CT NOT ISSUED    |
| 6/7/2022          | AS282039        | TRANSFER                    |                                   |
| 6/7/2022          | AS282040        | MORTGAGE                    | EDITION 1                         |

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



FOLIO: 13/258406

| SEARCH DATE | TIME    | EDITION NO | DATE     |
|-------------|---------|------------|----------|
| 15/9/2023   | 2:05 PM | 1          | 6/7/2022 |

LAND

LOT 13 IN DEPOSITED PLAN 258406  
AT DUBBO  
LOCAL GOVERNMENT AREA DUBBO REGIONAL  
PARISH OF WARRIE COUNTY OF LINCOLN  
TITLE DIAGRAM DP258406

FIRST SCHEDULE

VELO HOLDINGS PTY LTD

(T AS282039)

SECOND SCHEDULE (6 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP251232 EASEMENT FOR WATER SUPPLY APPURTENANT TO THE LAND ABOVE DESCRIBED
- 3 DP258406 EASEMENT FOR WATER SUPPLY AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 4 DP258406 RESTRICTION(S) ON THE USE OF LAND
- 5 LAND EXCLUDES MINERALS BY THE CROWN GRANTS VOL.939 FOL.73,VOL.1001 FOLS 105 & 106
- 6 AS282040 MORTGAGE TO SUNCORP-METWAY LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

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





# **APPENDIX C**

## **HISTORIC AERIAL PHOTOGRAPHY**



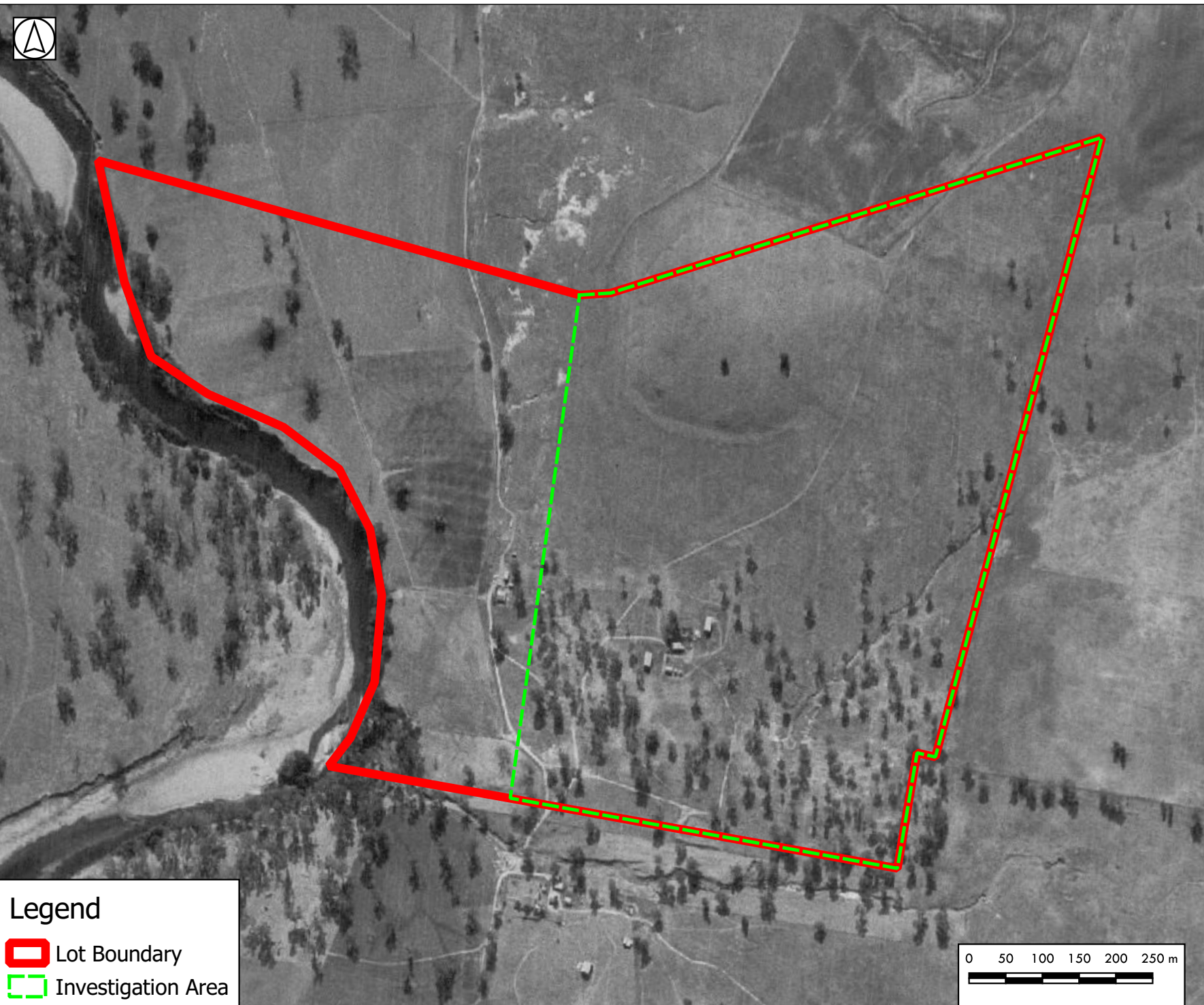


**Preliminary  
Contamination  
Investigation**

**HISTORIC AERIAL  
IMAGERY**

20L Rocky Rd, Dubbo

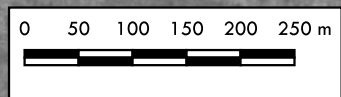
**1964**



**Legend**

 Lot Boundary

 Investigation Area





**Preliminary  
Contamination  
Investigation**

**HISTORIC AERIAL  
IMAGERY**

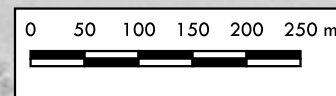
20L Rocky Rd, Dubbo

**1980**

**Legend**

 Lot Boundary

 Investigation Area







**Preliminary  
Contamination  
Investigation**

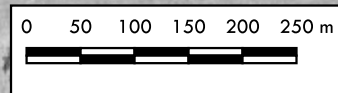
**HISTORIC AERIAL  
IMAGERY**

20L Rocky Rd, Dubbo

**1991**

**Legend**

-  Lot Boundary
-  Investigation Area



Source: NSW SixMap (Imagery); NSW LPI  
(Cadastre)





**Preliminary  
Contamination  
Investigation**

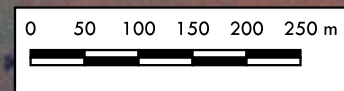
**HISTORIC AERIAL  
IMAGERY**

20L Rocky Rd, Dubbo

**1995**

**Legend**

-  Lot Boundary
-  Investigation Area





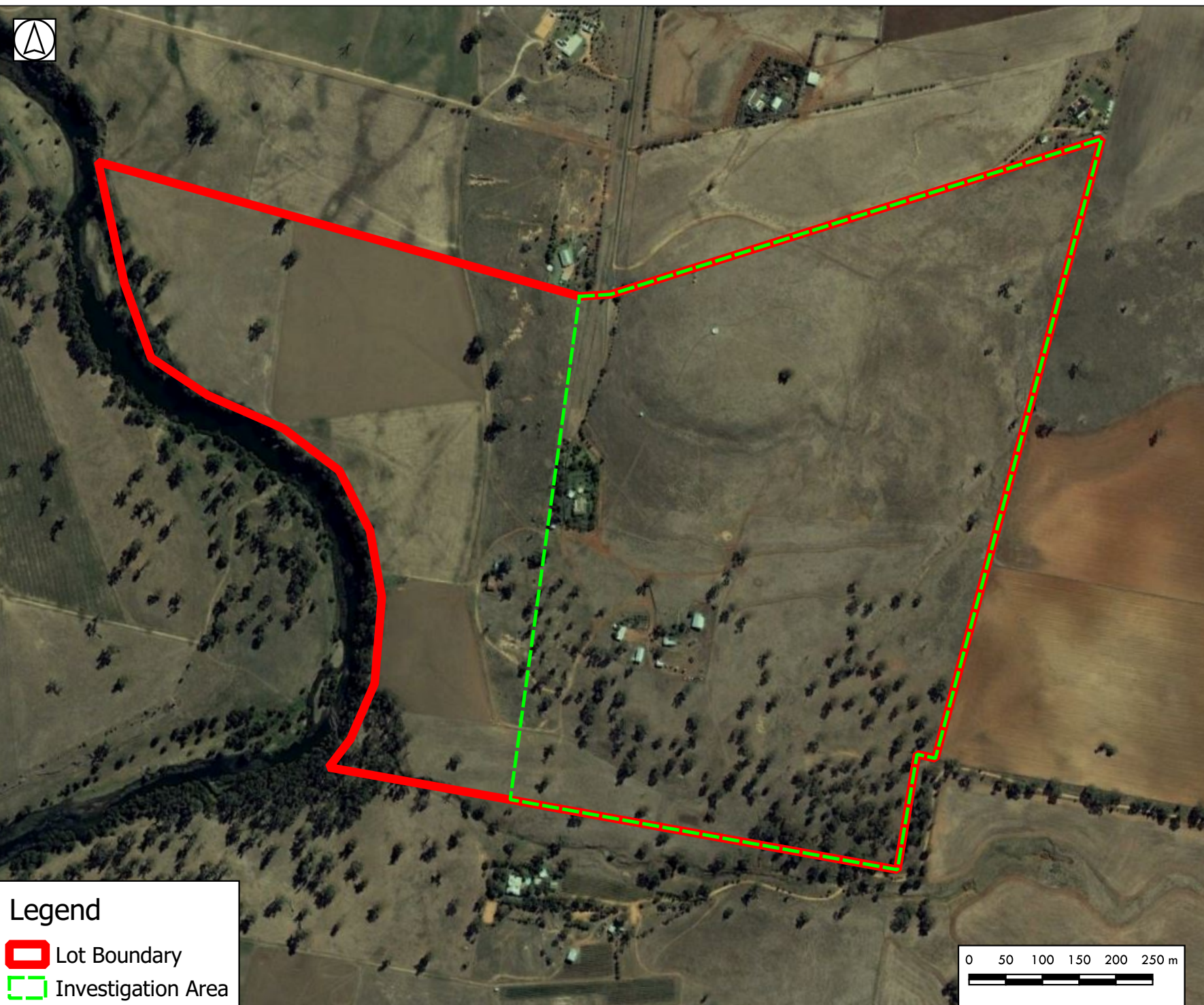


**Preliminary  
Contamination  
Investigation**

**HISTORIC AERIAL  
IMAGERY**

20L Rocky Rd, Dubbo

**2006**







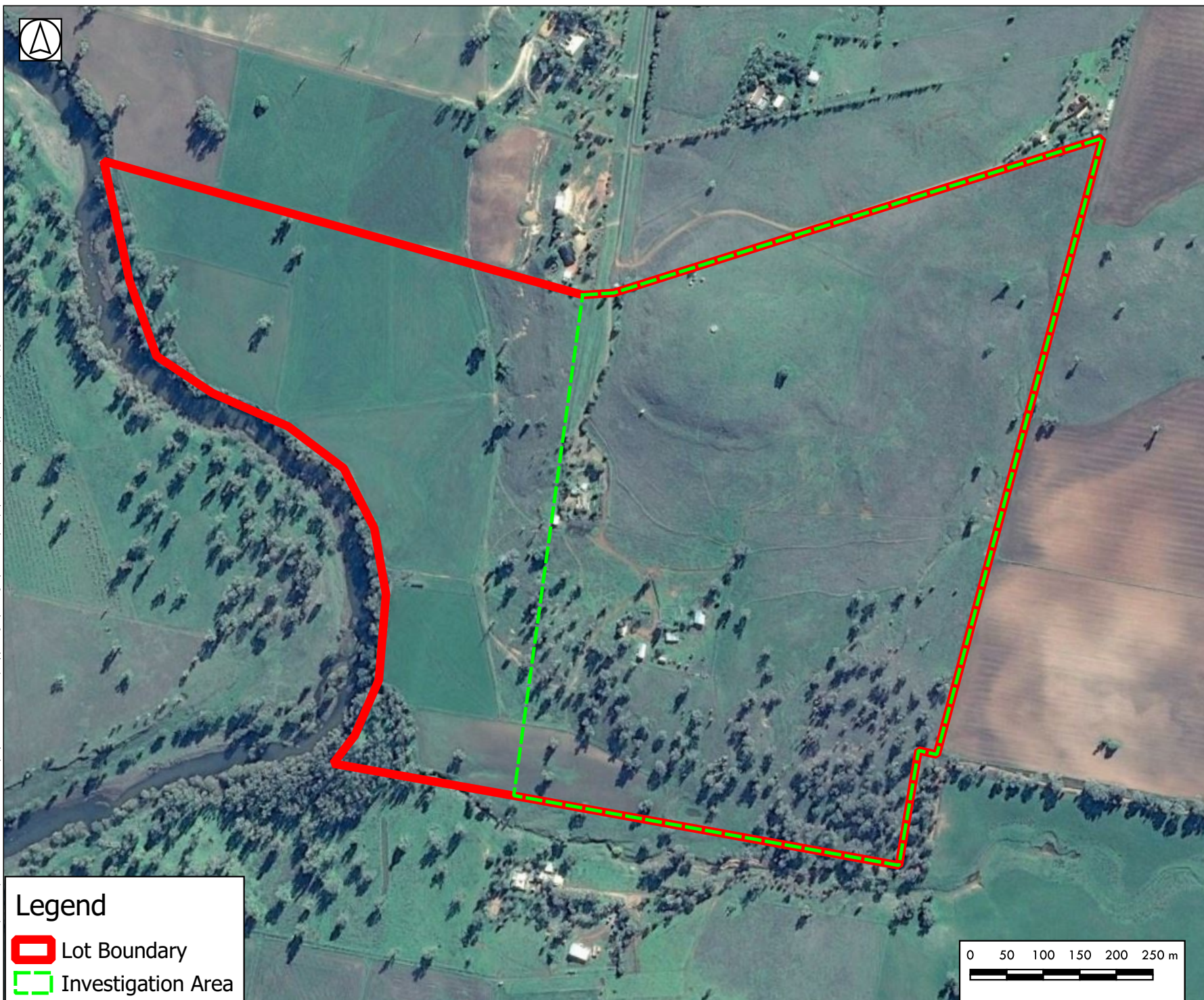
**Preliminary  
Contamination  
Investigation**

**HISTORIC AERIAL  
IMAGERY**

20L Rocky Rd, Dubbo

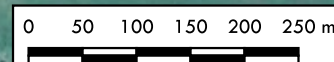
**2016**

EPSCG:28355 Prepared by: Brendan Stuart Date: 29/9/2023 Directory: \\orange\Orange\General\Temp\Brendan\Rocky Rd\20L Rocky Rd.agz



**Legend**

-  Lot Boundary
-  Investigation Area



Source: NSW SixMap (Imagery); NSW LPI (Cadastre)



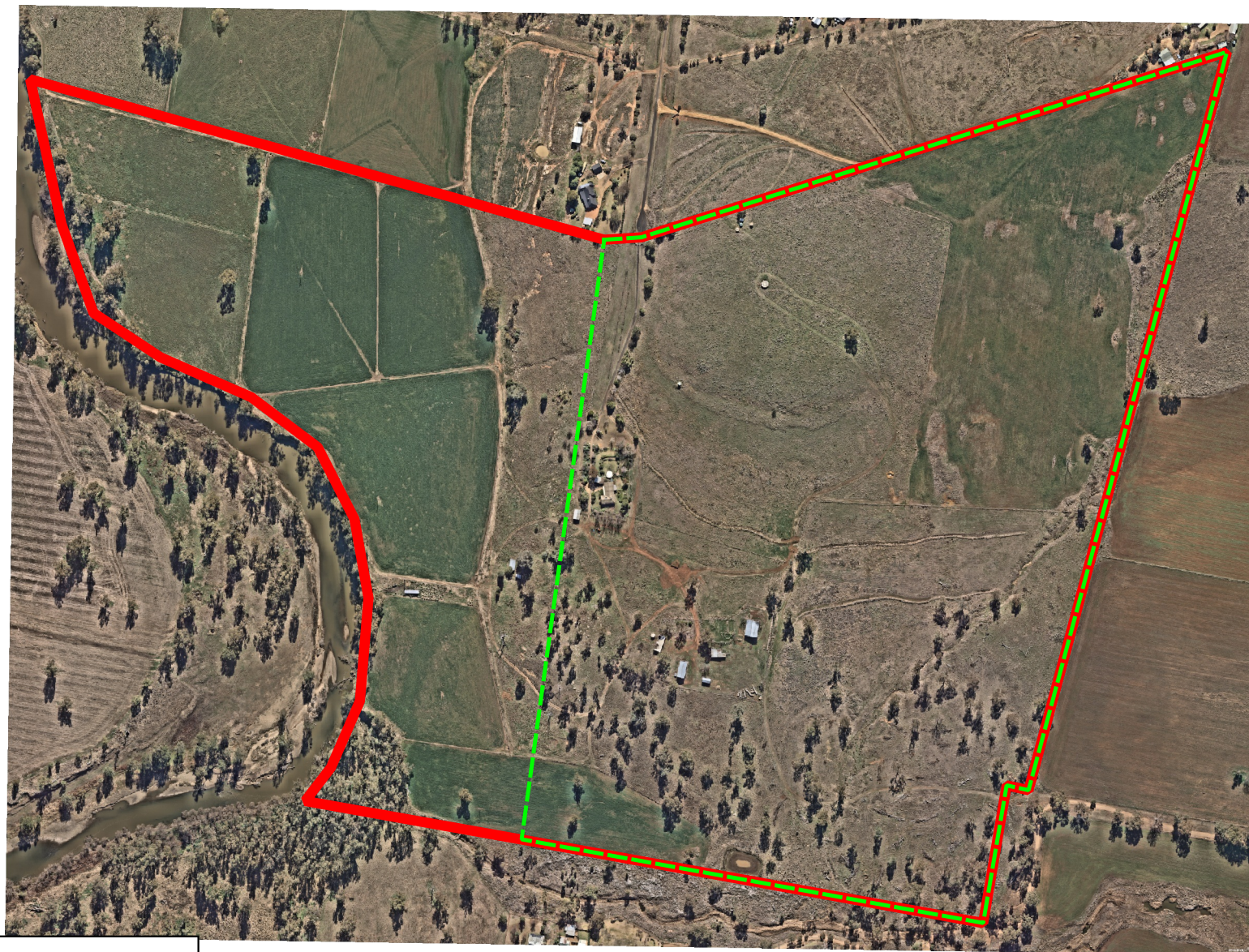


**Preliminary  
Contamination  
Investigation**

**HISTORIC AERIAL  
IMAGERY**

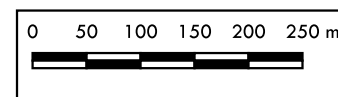
20L Rocky Rd, Dubbo

**2023**



**Legend**

-  Lot Boundary
-  Investigation Area







# **APPENDIX D**

## **ANALYTICAL CERTIFICATES**



## CERTIFICATE OF ANALYSIS

**Work Order** : **ES2329175**  
**Client** : **PREMISE NSW Pty Ltd**  
**Contact** : **B STUART**  
**Address** : **154 Peisley St,  
Orange 2800**  
**Telephone** : **----**  
**Project** : **123050 RRD**  
**Order number** : **----**  
**C-O-C number** : **----**  
**Sampler** : **B. Searl**  
**Site** : **----**  
**Quote number** : **EN/222**  
**No. of samples received** : **30**  
**No. of samples analysed** : **23**

**Page** : 1 of 26  
**Laboratory** : Environmental Division Sydney  
**Contact** : Customer Services ES  
**Address** : 277-289 Woodpark Road Smithfield NSW Australia 2164  
**Telephone** : +61-2-8784 8555  
**Date Samples Received** : 29-Aug-2023 09:30  
**Date Analysis Commenced** : 31-Aug-2023  
**Issue Date** : 06-Sep-2023 09:50



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

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             |
|-----------------|-----------------------------|------------------------------------|
| Ankit Joshi     | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjjar | Organic Coordinator         | Sydney Organics, Smithfield, NSW   |
| Evie Sidarta    | Inorganic Chemist           | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini  | LCMS Coordinator            | Sydney Inorganics, Smithfield, NSW |
| Franco Lentini  | LCMS Coordinator            | Sydney Organics, Smithfield, NSW   |



## General Comments

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

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

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

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

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

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

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

LOR = Limit of reporting

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

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP202 :Particular samples required dilution due to sample matrix. LOR values have been adjusted accordingly.
- EP202: Poor matrix spike recovery has been detected due to sample matrix interferences.
- 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.



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|----------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                    |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                       |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 13.9                  | 24.8                  | 7.9                   | 13.2                  | 6.7                   |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                       |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | ----                  | ----                  | <5                    | ----                  | ----                  |
| Barium                                             | 7440-39-3  | 10   | mg/kg | ----                  | ----                  | 220                   | ----                  | ----                  |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | ----                  | ----                  | <1                    | ----                  | ----                  |
| Boron                                              | 7440-42-8  | 50   | mg/kg | ----                  | ----                  | <50                   | ----                  | ----                  |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | ----                  | ----                  | <1                    | ----                  | ----                  |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | ----                  | ----                  | 122                   | ----                  | ----                  |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | ----                  | ----                  | 34                    | ----                  | ----                  |
| Copper                                             | 7440-50-8  | 5    | mg/kg | ----                  | ----                  | 41                    | ----                  | ----                  |
| Lead                                               | 7439-92-1  | 5    | mg/kg | ----                  | ----                  | 6                     | ----                  | ----                  |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | ----                  | ----                  | 1120                  | ----                  | ----                  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | ----                  | ----                  | 100                   | ----                  | ----                  |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | ----                  | ----                  | <5                    | ----                  | ----                  |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | ----                  | ----                  | 122                   | ----                  | ----                  |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | ----                  | ----                  | 59                    | ----                  | ----                  |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                       |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | ----                  | ----                  | <0.1                  | ----                  | ----                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                       |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                           |                          |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                       |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4.4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                       |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>      |                          |      |       |                       |                       |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                               | 122-88-3                 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2.4-DB                                                    | 94-82-6                  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                  |            |      |       | S1<br>Sample ID: SS_1 | S3<br>Sample ID: SS_3 | S5<br>Sample ID: SS_5 | S8<br>Sample ID: SS_8 | S9<br>Sample ID: SS_9 |
|------------------------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                             |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                         | CAS Number | LOR  | Unit  | ES2329175-001         | ES2329175-003         | ES2329175-005         | ES2329175-008         | ES2329175-009         |
|                                                                  |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP020A: Phenoxyacetic Acid Herbicides by LCMS - Continued</b> |            |      |       |                       |                       |                       |                       |                       |
| Dicamba                                                          | 1918-00-9  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Mecoprop                                                         | 93-65-2    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| MCPA                                                             | 94-74-6    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4-DP                                                           | 120-36-5   | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4-D                                                            | 94-75-7    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Triclopyr                                                        | 55335-06-3 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4,5-TP (Silvex)                                                | 93-72-1    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| 2,4,5-T                                                          | 93-76-5    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| MCPB                                                             | 94-81-5    | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Picloram                                                         | 1918-02-1  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Clopyralid                                                       | 1702-17-6  | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| Fluroxypyr                                                       | 69377-81-7 | 0.02 | mg/kg | ----                  | <0.02                 | <0.04                 | <0.02                 | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                |            |      |       |                       |                       |                       |                       |                       |
| Dibromo-DDE                                                      | 21655-73-2 | 0.05 | %     | 77.4                  | 75.9                  | 84.0                  | 94.2                  | 104                   |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>              |            |      |       |                       |                       |                       |                       |                       |
| DEF                                                              | 78-48-8    | 0.05 | %     | 73.2                  | 74.5                  | 86.9                  | 106                   | 104                   |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>            |            |      |       |                       |                       |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                                   | 19719-28-9 | 0.02 | %     | ----                  | 53.3                  | 66.9                  | 65.6                  | ----                  |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|----------------------------------------------------|------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                    |            |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                         |                         |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 8.0                     | 9.8                     | 17.9                  | 12.4                  | 10.2                  |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                         |                         |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | ----                    | ----                    | <5                    | <5                    | <5                    |
| Barium                                             | 7440-39-3  | 10   | mg/kg | ----                    | ----                    | 90                    | 90                    | 120                   |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | ----                    | ----                    | 1                     | <1                    | <1                    |
| Boron                                              | 7440-42-8  | 50   | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | ----                    | ----                    | <1                    | <1                    | <1                    |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | ----                    | ----                    | 86                    | 173                   | 76                    |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | ----                    | ----                    | 31                    | 23                    | 30                    |
| Copper                                             | 7440-50-8  | 5    | mg/kg | ----                    | ----                    | 28                    | 25                    | 29                    |
| Lead                                               | 7439-92-1  | 5    | mg/kg | ----                    | ----                    | 11                    | 12                    | 13                    |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | ----                    | ----                    | 335                   | 537                   | 1040                  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | ----                    | ----                    | 52                    | 52                    | 40                    |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | ----                    | ----                    | <5                    | <5                    | <5                    |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | ----                    | ----                    | 91                    | 122                   | 81                    |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | ----                    | ----                    | 288                   | 276                   | 63                    |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                         |                         |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | ----                    | ----                    | <0.1                  | <0.1                  | <0.1                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                         |                         |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|-----------------------------------------------------------|--------------------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                           |                          |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                         |                         |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                         |                         |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                 | <0.05                 | <0.05                 |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                         |                         |                       |                       |                       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                                        |                   |     |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                         |                         |                       |                       |                       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Benzo(g.h.i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | ----                    | ----                    | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | ----                    | ----                    | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                         |                         |                       |                       |                       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                         |                         |                       |                       |                       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | ----                    | ----                    | <10                   | <10                   | <10                   |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | ----                    | ----                    | <100                  | <100                  | <100                  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | ----                    | ----                    | <50                   | <50                   | <50                   |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|------------------------------------------------------|-------------------|------|-------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                      |                   |      |       | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                         |                         |                       |                       |                       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | ----                    | ----                    | <0.2                  | <0.2                  | <0.2                  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | ----                    | ----                    | <0.2                  | <0.2                  | <0.2                  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | ----                    | ----                    | <0.5                  | <0.5                  | <0.5                  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | ----                    | ----                    | <1                    | <1                    | <1                    |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                         |                         |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.02                   | <0.02                   | ----                  | ----                  | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                         |                         |                       |                       |                       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 104                     | 76.3                    | 89.4                  | 113                   | 109                   |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                         |                         |                       |                       |                       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 108                     | 78.6                    | 85.0                  | 119                   | 108                   |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                         |                         |                       |                       |                       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | ----                    | ----                    | 83.9                  | 86.4                  | 87.3                  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | ----                    | ----                    | 90.1                  | 96.3                  | 87.5                  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | ----                    | ----                    | 69.1                  | 54.7                  | 51.8                  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                         |                         |                       |                       |                       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | ----                    | ----                    | 95.2                  | 102                   | 94.2                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                       |            |      |      | S10<br>Sample ID: SS_10 | S11<br>Sample ID: SS_11 | J1<br>Sample ID: JS_1 | J2<br>Sample ID: JS_2 | J3<br>Sample ID: JS_3 |
|-------------------------------------------------------|------------|------|------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                  |            |      |      | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                              | CAS Number | LOR  | Unit | ES2329175-010           | ES2329175-011           | ES2329175-012         | ES2329175-013         | ES2329175-014         |
|                                                       |            |      |      | Result                  | Result                  | Result                | Result                | Result                |
| <b>EP075(SIM)T: PAH Surrogates - Continued</b>        |            |      |      |                         |                         |                       |                       |                       |
| Anthracene-d10                                        | 1719-06-8  | 0.5  | %    | ----                    | ----                    | 98.7                  | 92.8                  | 90.6                  |
| 4-Terphenyl-d14                                       | 1718-51-0  | 0.5  | %    | ----                    | ----                    | 105                   | 101                   | 100                   |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                 |            |      |      |                         |                         |                       |                       |                       |
| 1,2-Dichloroethane-D4                                 | 17060-07-0 | 0.2  | %    | ----                    | ----                    | 85.1                  | 92.8                  | 79.1                  |
| Toluene-D8                                            | 2037-26-5  | 0.2  | %    | ----                    | ----                    | 91.8                  | 92.7                  | 78.8                  |
| 4-Bromofluorobenzene                                  | 460-00-4   | 0.2  | %    | ----                    | ----                    | 73.0                  | 101                   | 84.0                  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |      |      |                         |                         |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 0.02 | %    | 74.1                    | 57.9                    | ----                  | ----                  | ----                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|----------------------------------------------------|------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                    |            |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                       |                       |                       |                       |
| Moisture Content                                   | ----       | 1.0  | %     | 8.8                   | 14.0                  | 9.2                   | 15.2                  | 9.9                   |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                       |                       |                       |                       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                    | <5                    | <5                    | 29                    | <5                    |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 340                   | 310                   | 80                    | 70                    | 80                    |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | <1                    | 2                     | <1                    | <1                    | <1                    |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                    | <1                    | <1                    | <1                    | <1                    |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 115                   | 294                   | 114                   | 163                   | 26                    |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 64                    | 70                    | 18                    | 25                    | 10                    |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 29                    | 41                    | 16                    | 31                    | 9                     |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 15                    | 29                    | 8                     | 10                    | 6                     |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 1520                  | 1440                  | 451                   | 370                   | 405                   |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 69                    | 89                    | 35                    | 63                    | 15                    |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                    | <5                    | <5                    | <5                    | <5                    |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 103                   | 137                   | 66                    | 135                   | 28                    |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 62                    | 1610                  | 100                   | 94                    | 84                    |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                       |                       |                       |                       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                       |                       |                       |                       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                           |                          |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                       |                       |                       |                       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| 4,4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                       |                       |                       |                       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                 | <0.05                 | <0.05                 | <0.05                 |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                       |                       |                       |                       |                       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                                        |                   |     |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                       |                       |                       |                       |                       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Dibenz(a,h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Benzo(g,h,i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            | <b>0.6</b>            |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            | <b>1.2</b>            |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                       |                       |                       |                       |                       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                       |                       |                       |                       |                       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                   | <10                   | <10                   | <10                   | <10                   |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                  | <100                  | <100                  | <100                  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                   | <50                   | <50                   | <50                   | <50                   |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------------|-------------------|------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-015         | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |
|                                                      |                   |      |       | Result                | Result                | Result                | Result                | Result                |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                       |                       |                       |                       |                       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                  | <0.2                  | <0.2                  | <0.2                  | <0.2                  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                    | <1                    | <1                    | <1                    | <1                    |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                       |                       |                       |                       |                       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.04                 | ----                  | <0.02                 | ----                  | ----                  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                       |                       |                       |                       |                       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 91.4                  | 81.0                  | 79.0                  | 107                   | 92.9                  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                       |                       |                       |                       |                       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 75.3                  | 71.8                  | 80.7                  | 107                   | 91.1                  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                       |                       |                       |                       |                       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 82.7                  | 95.0                  | 84.7                  | 89.8                  | 96.7                  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 89.2                  | 80.6                  | 93.2                  | 90.5                  | 88.4                  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 52.6                  | 52.5                  | 50.2                  | 50.2                  | 50.1                  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                       |                       |                       |                       |                       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 94.9                  | 101                   | 98.2                  | 98.1                  | 99.9                  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

| Sub-Matrix: SOIL<br>(Matrix: SOIL)             |            |      |      | Sample ID     | J4<br>Sample ID: JS_4 | J5<br>Sample ID: JS_5 | J6<br>Sample ID: JS_6 | J7<br>Sample ID: JS_7 | J8<br>Sample ID: JS_8 |
|------------------------------------------------|------------|------|------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sampling date / time                           |            |      |      |               | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     | 24-Aug-2023 00:00     |
| Compound                                       | CAS Number | LOR  | Unit | ES2329175-015 | ES2329175-016         | ES2329175-017         | ES2329175-018         | ES2329175-019         |                       |
|                                                |            |      |      | Result        | Result                | Result                | Result                | Result                |                       |
| EP075(SIM)T: PAH Surrogates - Continued        |            |      |      |               |                       |                       |                       |                       |                       |
| Anthracene-d10                                 | 1719-06-8  | 0.5  | %    | 95.8          | 96.1                  | 93.7                  | 92.9                  | 88.3                  |                       |
| 4-Terphenyl-d14                                | 1718-51-0  | 0.5  | %    | 105           | 104                   | 102                   | 102                   | 100                   |                       |
| EP080S: TPH(V)/BTEX Surrogates                 |            |      |      |               |                       |                       |                       |                       |                       |
| 1,2-Dichloroethane-D4                          | 17060-07-0 | 0.2  | %    | 78.3          | 72.0                  | 89.8                  | 84.5                  | 90.5                  |                       |
| Toluene-D8                                     | 2037-26-5  | 0.2  | %    | 75.3          | 69.7                  | 87.9                  | 75.1                  | 88.9                  |                       |
| 4-Bromofluorobenzene                           | 460-00-4   | 0.2  | %    | 82.0          | 76.4                  | 93.4                  | 86.4                  | 93.8                  |                       |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |               |                       |                       |                       |                       |                       |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | 66.6          | ----                  | 71.7                  | ----                  | ----                  |                       |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|----------------------------------------------------|------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                    |            |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                       |                         |                         |                         |                         |
| Moisture Content                                   | ----       | 1.0  | %     | 13.3                  | 19.7                    | 13.7                    | 8.5                     | 18.3                    |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                       |                         |                         |                         |                         |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                    | <5                      | <5                      | <5                      | <5                      |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 250                   | 350                     | 80                      | 270                     | 230                     |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | <1                    | <1                      | <1                      | <1                      | <1                      |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                    | <1                      | <1                      | 2                       | <1                      |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 72                    | 108                     | 238                     | 131                     | 92                      |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 26                    | 50                      | 20                      | 48                      | 32                      |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 33                    | 48                      | 62                      | 42                      | 47                      |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 13                    | <5                      | <5                      | 6                       | 13                      |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 1220                  | 1670                    | 380                     | 1640                    | 904                     |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 47                    | 129                     | 120                     | 112                     | 87                      |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                    | <5                      | <5                      | <5                      | <5                      |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 68                    | 156                     | 194                     | 131                     | 102                     |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 473                   | 70                      | 43                      | 76                      | 98                      |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                       |                         |                         |                         |                         |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                       |                         |                         |                         |                         |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|-----------------------------------------------------------|--------------------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                           |                          |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                       |                         |                         |                         |                         |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4.4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| 4.4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                       |                         |                         |                         |                         |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                 | <0.05                   | <0.05                   | <0.05                   | <0.05                   |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                       |                         |                         |                         |                         |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                                        |                   |     |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                       |                         |                         |                         |                         |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Dibenz(a,h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Benzo(g,h,i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>            | <b>0.6</b>              | <b>0.6</b>              | <b>0.6</b>              | <b>0.6</b>              |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>            | <b>1.2</b>              | <b>1.2</b>              | <b>1.2</b>              | <b>1.2</b>              |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                       |                         |                         |                         |                         |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                       |                         |                         |                         |                         |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                   | <10                     | <10                     | <10                     | <10                     |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <b>100</b>            | <100                    | <100                    | <100                    | <100                    |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                  | <100                    | <100                    | <100                    | <100                    |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <b>100</b>            | <50                     | <50                     | <50                     | <50                     |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                   | <50                     | <50                     | <50                     | <50                     |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------------|-------------------|------|-------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-020         | ES2329175-021           | ES2329175-022           | ES2329175-023           | ES2329175-024           |
|                                                      |                   |      |       | Result                | Result                  | Result                  | Result                  | Result                  |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                       |                         |                         |                         |                         |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                  | <0.2                    | <0.2                    | <0.2                    | <0.2                    |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                  | <0.5                    | <0.5                    | <0.5                    | <0.5                    |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                    | <1                      | <1                      | <1                      | <1                      |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                       |                         |                         |                         |                         |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | ----                  | ----                    | <0.02                   | ----                    | ----                    |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                       |                         |                         |                         |                         |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 103                   | 93.0                    | 92.9                    | 109                     | 102                     |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                       |                         |                         |                         |                         |
| DEF                                                  | 78-48-8           | 0.05 | %     | 99.6                  | 88.6                    | 90.0                    | 98.8                    | 102                     |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                       |                         |                         |                         |                         |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 102                   | 94.7                    | 83.9                    | 98.5                    | 91.1                    |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 98.1                  | 103                     | 90.8                    | 91.8                    | 91.2                    |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 53.9                  | 50.0                    | 48.1                    | 50.4                    | 50.6                    |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                       |                         |                         |                         |                         |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 96.2                  | 99.8                    | 101                     | 99.1                    | 102                     |



Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)             |            |      |      | Sample ID     | J9<br>Sample ID: JS_9 | J10<br>Sample ID: JS_10 | J11<br>Sample ID: JS_11 | J12<br>Sample ID: JS_12 | J13<br>Sample ID: JS_13 |
|------------------------------------------------|------------|------|------|---------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Sampling date / time                           |            |      |      |               | 24-Aug-2023 00:00     | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       |
| Compound                                       | CAS Number | LOR  | Unit | ES2329175-020 | ES2329175-021         | ES2329175-022           | ES2329175-023           | ES2329175-024           |                         |
|                                                |            |      |      | Result        | Result                | Result                  | Result                  | Result                  |                         |
| EP075(SIM)T: PAH Surrogates - Continued        |            |      |      |               |                       |                         |                         |                         |                         |
| Anthracene-d10                                 | 1719-06-8  | 0.5  | %    | 93.6          | 90.9                  | 93.8                    | 91.1                    | 93.3                    |                         |
| 4-Terphenyl-d14                                | 1718-51-0  | 0.5  | %    | 104           | 104                   | 106                     | 104                     | 106                     |                         |
| EP080S: TPH(V)/BTEX Surrogates                 |            |      |      |               |                       |                         |                         |                         |                         |
| 1,2-Dichloroethane-D4                          | 17060-07-0 | 0.2  | %    | 83.4          | 79.4                  | 76.3                    | 71.1                    | 75.1                    |                         |
| Toluene-D8                                     | 2037-26-5  | 0.2  | %    | 83.8          | 78.9                  | 75.9                    | 68.2                    | 75.4                    |                         |
| 4-Bromofluorobenzene                           | 460-00-4   | 0.2  | %    | 89.2          | 83.5                  | 83.8                    | 80.3                    | 84.0                    |                         |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |               |                       |                         |                         |                         |                         |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | ----          | ----                  | 58.9                    | ----                    | ----                    |                         |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                    |            |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|----------------------------------------------------|------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                               |            |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                           | CAS Number | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                    |            |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b> |            |      |       |                         |                         |                             |       |       |
| Moisture Content                                   | ----       | 1.0  | %     | 27.4                    | 7.8                     | 13.4                        | ----  | ----  |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>      |            |      |       |                         |                         |                             |       |       |
| Arsenic                                            | 7440-38-2  | 5    | mg/kg | <5                      | <5                      | 9                           | ----  | ----  |
| Barium                                             | 7440-39-3  | 10   | mg/kg | 260                     | 30                      | 40                          | ----  | ----  |
| Beryllium                                          | 7440-41-7  | 1    | mg/kg | 1                       | <1                      | <1                          | ----  | ----  |
| Boron                                              | 7440-42-8  | 50   | mg/kg | <50                     | <50                     | <50                         | ----  | ----  |
| Cadmium                                            | 7440-43-9  | 1    | mg/kg | <1                      | <1                      | <1                          | ----  | ----  |
| Chromium                                           | 7440-47-3  | 2    | mg/kg | 106                     | 24                      | 155                         | ----  | ----  |
| Cobalt                                             | 7440-48-4  | 2    | mg/kg | 29                      | 10                      | 3                           | ----  | ----  |
| Copper                                             | 7440-50-8  | 5    | mg/kg | 59                      | 10                      | 42                          | ----  | ----  |
| Lead                                               | 7439-92-1  | 5    | mg/kg | 10                      | 7                       | <5                          | ----  | ----  |
| Manganese                                          | 7439-96-5  | 5    | mg/kg | 591                     | 73                      | 41                          | ----  | ----  |
| Nickel                                             | 7440-02-0  | 2    | mg/kg | 97                      | 16                      | 43                          | ----  | ----  |
| Selenium                                           | 7782-49-2  | 5    | mg/kg | <5                      | <5                      | <5                          | ----  | ----  |
| Vanadium                                           | 7440-62-2  | 5    | mg/kg | 116                     | 32                      | 152                         | ----  | ----  |
| Zinc                                               | 7440-66-6  | 5    | mg/kg | 100                     | 17                      | 12                          | ----  | ----  |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>   |            |      |       |                         |                         |                             |       |       |
| Mercury                                            | 7439-97-6  | 0.1  | mg/kg | <0.1                    | <0.1                    | <0.1                        | ----  | ----  |
| <b>EP068A: Organochlorine Pesticides (OC)</b>      |            |      |       |                         |                         |                             |       |       |
| alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Total Chlordane (sum)                            | ----       | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4,4'-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|-----------------------------------------------------------|--------------------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                      |                          |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                                  | CAS Number               | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                           |                          |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                         |                         |                             |       |       |
| beta-Endosulfan                                           | 33213-65-9               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Endosulfan (sum)                                        | 115-29-7                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4,4'-DDD                                                  | 72-54-8                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endrin aldehyde                                           | 7421-93-4                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| 4,4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                         |                         |                             |       |       |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | <0.2                    | <0.2                    | <0.2                        | ----  | ----  |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | <0.05                   | <0.05                   | <0.05                       | ----  | ----  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>     |                          |      |       |                         |                         |                             |       |       |
| Naphthalene                                               | 91-20-3                  | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Acenaphthylene                                            | 208-96-8                 | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                                   |                   |     |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                                               | CAS Number        | LOR | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                                        |                   |     |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |                         |                         |                             |       |       |
| Acenaphthene                                                           | 83-32-9           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Fluorene                                                               | 86-73-7           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Phenanthrene                                                           | 85-01-8           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Anthracene                                                             | 120-12-7          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Fluoranthene                                                           | 206-44-0          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Pyrene                                                                 | 129-00-0          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benz(a)anthracene                                                      | 56-55-3           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Chrysene                                                               | 218-01-9          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Benzo(g.h.i)perylene                                                   | 191-24-2          | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg | <b>0.6</b>              | <b>0.6</b>              | ----                        | ----  | ----  |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg | <b>1.2</b>              | <b>1.2</b>              | ----                        | ----  | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |                         |                         |                             |       |       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |       |                         |                         |                             |       |       |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg | <10                     | <10                     | ----                        | ----  | ----  |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100                    | <100                    | ----                        | ----  | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50                     | <50                     | ----                        | ----  | ----  |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                      |                   |      |       | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|------------------------------------------------------|-------------------|------|-------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                                 |                   |      |       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                             | CAS Number        | LOR  | Unit  | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                      |                   |      |       | Result                  | Result                  | Result                      | ----  | ----  |
| <b>EP080: BTEXN</b>                                  |                   |      |       |                         |                         |                             |       |       |
| Benzene                                              | 71-43-2           | 0.2  | mg/kg | <0.2                    | <0.2                    | ----                        | ----  | ----  |
| Toluene                                              | 108-88-3          | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Ethylbenzene                                         | 100-41-4          | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| meta- & para-Xylene                                  | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ortho-Xylene                                         | 95-47-6           | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| ^ Sum of BTEX                                        | ----              | 0.2  | mg/kg | <0.2                    | <0.2                    | ----                        | ----  | ----  |
| ^ Total Xylenes                                      | ----              | 0.5  | mg/kg | <0.5                    | <0.5                    | ----                        | ----  | ----  |
| Naphthalene                                          | 91-20-3           | 1    | mg/kg | <1                      | <1                      | ----                        | ----  | ----  |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b> |                   |      |       |                         |                         |                             |       |       |
| 4-Chlorophenoxy acetic acid                          | 122-88-3          | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-DB                                               | 94-82-6           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Dicamba                                              | 1918-00-9         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Mecoprop                                             | 93-65-2           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| MCPA                                                 | 94-74-6           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-DP                                               | 120-36-5          | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4-D                                                | 94-75-7           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Triclopyr                                            | 55335-06-3        | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4,5-TP (Silvex)                                    | 93-72-1           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| 2,4,5-T                                              | 93-76-5           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| MCPB                                                 | 94-81-5           | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Picloram                                             | 1918-02-1         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Clopyralid                                           | 1702-17-6         | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| Fluroxypyr                                           | 69377-81-7        | 0.02 | mg/kg | <0.04                   | <0.02                   | ----                        | ----  | ----  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>    |                   |      |       |                         |                         |                             |       |       |
| Dibromo-DDE                                          | 21655-73-2        | 0.05 | %     | 128                     | 82.8                    | 111                         | ----  | ----  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>  |                   |      |       |                         |                         |                             |       |       |
| DEF                                                  | 78-48-8           | 0.05 | %     | 123                     | 79.1                    | 105                         | ----  | ----  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>     |                   |      |       |                         |                         |                             |       |       |
| Phenol-d6                                            | 13127-88-3        | 0.5  | %     | 92.1                    | 83.8                    | ----                        | ----  | ----  |
| 2-Chlorophenol-D4                                    | 93951-73-6        | 0.5  | %     | 99.6                    | 89.0                    | ----                        | ----  | ----  |
| 2,4,6-Tribromophenol                                 | 118-79-6          | 0.5  | %     | 50.7                    | 54.5                    | ----                        | ----  | ----  |
| <b>EP075(SIM)T: PAH Surrogates</b>                   |                   |      |       |                         |                         |                             |       |       |
| 2-Fluorobiphenyl                                     | 321-60-8          | 0.5  | %     | 104                     | 93.8                    | ----                        | ----  | ----  |
| Anthracene-d10                                       | 1719-06-8         | 0.5  | %     | 89.7                    | 94.1                    | ----                        | ----  | ----  |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                |            |      |      | J14<br>Sample ID: JS_14 | J15<br>Sample ID: JS_15 | J11_B<br>Sample ID: JS_11_B | ----  | ----  |
|------------------------------------------------|------------|------|------|-------------------------|-------------------------|-----------------------------|-------|-------|
| Sampling date / time                           |            |      |      | 24-Aug-2023 00:00       | 24-Aug-2023 00:00       | 24-Aug-2023 00:00           | ----  | ----  |
| Compound                                       | CAS Number | LOR  | Unit | ES2329175-025           | ES2329175-026           | ES2329175-030               | ----- | ----- |
|                                                |            |      |      | Result                  | Result                  | Result                      | ----  | ----  |
| EP075(SIM)T: PAH Surrogates - Continued        |            |      |      |                         |                         |                             |       |       |
| 4-Terphenyl-d14                                | 1718-51-0  | 0.5  | %    | 103                     | 109                     | ----                        | ----  | ----  |
| EP080S: TPH(V)/BTEX Surrogates                 |            |      |      |                         |                         |                             |       |       |
| 1,2-Dichloroethane-D4                          | 17060-07-0 | 0.2  | %    | 78.5                    | 81.7                    | ----                        | ----  | ----  |
| Toluene-D8                                     | 2037-26-5  | 0.2  | %    | 77.5                    | 79.2                    | ----                        | ----  | ----  |
| 4-Bromofluorobenzene                           | 460-00-4   | 0.2  | %    | 78.7                    | 84.6                    | ----                        | ----  | ----  |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |                         |                         |                             |       |       |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | 98.7                    | 68.2                    | ----                        | ----  | ----  |



## Surrogate Control Limits

| Sub-Matrix: SOIL                                      |            | Recovery Limits (%) |      |
|-------------------------------------------------------|------------|---------------------|------|
| Compound                                              | CAS Number | Low                 | High |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>     |            |                     |      |
| Dibromo-DDE                                           | 21655-73-2 | 49                  | 147  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>   |            |                     |      |
| DEF                                                   | 78-48-8    | 35                  | 143  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>      |            |                     |      |
| Phenol-d6                                             | 13127-88-3 | 63                  | 123  |
| 2-Chlorophenol-D4                                     | 93951-73-6 | 66                  | 122  |
| 2,4,6-Tribromophenol                                  | 118-79-6   | 40                  | 138  |
| <b>EP075(SIM)T: PAH Surrogates</b>                    |            |                     |      |
| 2-Fluorobiphenyl                                      | 321-60-8   | 70                  | 122  |
| Anthracene-d10                                        | 1719-06-8  | 66                  | 128  |
| 4-Terphenyl-d14                                       | 1718-51-0  | 65                  | 129  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                 |            |                     |      |
| 1,2-Dichloroethane-D4                                 | 17060-07-0 | 63                  | 125  |
| Toluene-D8                                            | 2037-26-5  | 67                  | 124  |
| 4-Bromofluorobenzene                                  | 460-00-4   | 66                  | 131  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |                     |      |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 45                  | 139  |



# **APPENDIX E**

## **ANALYTICAL LABORATORY QA/QC & CHAIN OF CUSTODY DOCUMENTS**





## SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2329175**

Client : **PREMISE NSW Pty Ltd**  
Contact : **B STUART**  
Address : **154 Peisley St,  
Orange 2800**

E-mail : **bstuart@geolyse.com**  
Telephone : **----**  
Facsimile : **----**

Project : **123050 RRD**  
Order number : **----**  
C-O-C number : **----**  
Site : **----**  
Sampler : **B. Searl**

Laboratory : **Environmental Division Sydney**  
Contact : **Customer Services ES**  
Address : **277-289 Woodpark Road Smithfield  
NSW Australia 2164**

E-mail : **ALSEnviro.Sydney@ALSGlobal.com**  
Telephone : **+61-2-8784 8555**  
Facsimile : **+61-2-8784 8500**

Page : **1 of 4**  
Quote number : **ES2019PREMIS0001 (EN/222)**  
QC Level : **NEPM 2013 B3 & ALS QC Standard**

### Dates

Date Samples Received : **29-Aug-2023 09:30**  
Client Requested Due : **05-Sep-2023**  
Date

Issue Date : **31-Aug-2023**  
Scheduled Reporting Date : **05-Sep-2023**

### Delivery Details

Mode of Delivery : **Carrier**  
No. of coolers/boxes : **1**

Security Seal : **Intact.**  
Temperature : **14.7°C, 14.8°C, 13.9°C - Ice  
Bricks present**

Receipt Detail : **HARD ESKY**

No. of samples received / analysed : **30 / 23**

### 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
- **Asbestos analysis cannot be conducted on sample #13 'J2' as no asbestos bag was received.**
- **Asbestos analysis cannot be conducted on sample #17 'J6' as no asbestos bag was received for this sample.**
- **Asbestos analysis cannot be conducted on sample #19 'J8' as no asbestos bag was received for this sample.**
- **Asbestos analysis cannot be conducted on sample #20 'J9' as no asbestos bag was received for this sample.**
- **Asbestos analysis cannot be conducted on sample #22 'J11' as not asbestos bag was received for this container.**
- **Sample #24 'J13' is unable to have asbestos analysis conducted due to not receiving an asbestos bag.**
- **Sample #26 'J15' is unable to have asbestos analysis conducted due to not receiving an asbestos bag.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.





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

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

- No sample container / preservation non-compliance exists.

Any sample identifications that cannot be displayed entirely in the analysis summary table will be listed below.

|               |                   |                              |
|---------------|-------------------|------------------------------|
| ES2329175-001 | : [ 24-Aug-2023 ] | : S1 - Sample ID: SS_1       |
| ES2329175-002 | : [ 24-Aug-2023 ] | : S2 - Sample ID: SS_2       |
| ES2329175-003 | : [ 24-Aug-2023 ] | : S3 - Sample ID: SS_3       |
| ES2329175-004 | : [ 24-Aug-2023 ] | : S4 - Sample ID: SS_4       |
| ES2329175-005 | : [ 24-Aug-2023 ] | : S5 - Sample ID: SS_5       |
| ES2329175-006 | : [ 24-Aug-2023 ] | : S6 - Sample ID: SS_6       |
| ES2329175-007 | : [ 24-Aug-2023 ] | : S7 - Sample ID: SS_7       |
| ES2329175-008 | : [ 24-Aug-2023 ] | : S8 - Sample ID: SS_8       |
| ES2329175-009 | : [ 24-Aug-2023 ] | : S9 - Sample ID: SS_9       |
| ES2329175-010 | : [ 24-Aug-2023 ] | : S10 - Sample ID: SS_10     |
| ES2329175-011 | : [ 24-Aug-2023 ] | : S11 - Sample ID: SS_11     |
| ES2329175-012 | : [ 24-Aug-2023 ] | : J1 - Sample ID: JS_1       |
| ES2329175-013 | : [ 24-Aug-2023 ] | : J2 - Sample ID: JS_2       |
| ES2329175-014 | : [ 24-Aug-2023 ] | : J3 - Sample ID: JS_3       |
| ES2329175-015 | : [ 24-Aug-2023 ] | : J4 - Sample ID: JS_4       |
| ES2329175-016 | : [ 24-Aug-2023 ] | : J5 - Sample ID: JS_5       |
| ES2329175-017 | : [ 24-Aug-2023 ] | : J6 - Sample ID: JS_6       |
| ES2329175-018 | : [ 24-Aug-2023 ] | : J7 - Sample ID: JS_7       |
| ES2329175-019 | : [ 24-Aug-2023 ] | : J8 - Sample ID: JS_8       |
| ES2329175-020 | : [ 24-Aug-2023 ] | : J9 - Sample ID: JS_9       |
| ES2329175-021 | : [ 24-Aug-2023 ] | : J10 - Sample ID: JS_10     |
| ES2329175-022 | : [ 24-Aug-2023 ] | : J11 - Sample ID: JS_11     |
| ES2329175-023 | : [ 24-Aug-2023 ] | : J12 - Sample ID: JS_12     |
| ES2329175-024 | : [ 24-Aug-2023 ] | : J13 - Sample ID: JS_13     |
| ES2329175-025 | : [ 24-Aug-2023 ] | : J14 - Sample ID: JS_14     |
| ES2329175-026 | : [ 24-Aug-2023 ] | : J15 - Sample ID: JS_15     |
| ES2329175-027 | : [ 24-Aug-2023 ] | : J8_B - Sample ID: JS_8_B   |
| ES2329175-028 | : [ 24-Aug-2023 ] | : J5_B - Sample ID: JS_5_B   |
| ES2329175-029 | : [ 24-Aug-2023 ] | : J7_B - Sample ID: JS_7_B   |
| ES2329175-030 | : [ 24-Aug-2023 ] | : J11_B - Sample ID: JS_11_B |

## Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

| Laboratory sample ID | Sampling date / time | Sample ID          | (On Hold) SOIL<br>No analysis requested | SOIL - EA055-103<br>Moisture Content | SOIL - EP202(solids)<br>Phenoxycetic acids | SOIL - S-03<br>15 Metals (NEPM 2013 Suite - Incl. Digestion) | SOIL - S-07<br>TRH/BTEX/PAH (SIM) | SOIL - S-12<br>OC/OP Pesticides |
|----------------------|----------------------|--------------------|-----------------------------------------|--------------------------------------|--------------------------------------------|--------------------------------------------------------------|-----------------------------------|---------------------------------|
| ES2329175-001        | 24-Aug-2023 00:00    | S1 Sample ID: SS_1 |                                         | ✓                                    |                                            |                                                              |                                   | ✓                               |
| ES2329175-002        | 24-Aug-2023 00:00    | S2 Sample ID: SS_2 | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-003        | 24-Aug-2023 00:00    | S3 Sample ID: SS_3 |                                         | ✓                                    | ✓                                          |                                                              |                                   | ✓                               |
| ES2329175-004        | 24-Aug-2023 00:00    | S4 Sample ID: SS_4 | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-005        | 24-Aug-2023 00:00    | S5 Sample ID: SS_5 |                                         | ✓                                    | ✓                                          | ✓                                                            |                                   | ✓                               |
| ES2329175-006        | 24-Aug-2023 00:00    | S6 Sample ID: SS_6 | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-007        | 24-Aug-2023 00:00    | S7 Sample ID: SS_7 | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-008        | 24-Aug-2023 00:00    | S8 Sample ID: SS_8 |                                         | ✓                                    | ✓                                          |                                                              |                                   | ✓                               |





|               |                   |                        | (On Hold) SOIL<br>No analysis requested | SOIL - EA055-103<br>Moisture Content | SOIL - EP202(solids)<br>Phenoxycetic acids | SOIL - S-03<br>15 Metals (NEPM 2013 Suite - incl. Digestion) | SOIL - S-07<br>TRH/BTEX/PAH (SIM) | SOIL - S-12<br>OC/OP Pesticides |
|---------------|-------------------|------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------|--------------------------------------------------------------|-----------------------------------|---------------------------------|
| ES2329175-009 | 24-Aug-2023 00:00 | S9 Sample ID: SS_9     |                                         | ✓                                    |                                            |                                                              |                                   | ✓                               |
| ES2329175-010 | 24-Aug-2023 00:00 | S10 Sample ID: SS_10   |                                         | ✓                                    | ✓                                          |                                                              |                                   | ✓                               |
| ES2329175-011 | 24-Aug-2023 00:00 | S11 Sample ID: SS_11   |                                         | ✓                                    | ✓                                          |                                                              |                                   | ✓                               |
| ES2329175-012 | 24-Aug-2023 00:00 | J1 Sample ID: JS_1     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-013 | 24-Aug-2023 00:00 | J2 Sample ID: JS_2     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-014 | 24-Aug-2023 00:00 | J3 Sample ID: JS_3     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-015 | 24-Aug-2023 00:00 | J4 Sample ID: JS_4     |                                         | ✓                                    | ✓                                          | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-016 | 24-Aug-2023 00:00 | J5 Sample ID: JS_5     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-017 | 24-Aug-2023 00:00 | J6 Sample ID: JS_6     |                                         | ✓                                    | ✓                                          | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-018 | 24-Aug-2023 00:00 | J7 Sample ID: JS_7     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-019 | 24-Aug-2023 00:00 | J8 Sample ID: JS_8     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-020 | 24-Aug-2023 00:00 | J9 Sample ID: JS_9     |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-021 | 24-Aug-2023 00:00 | J10 Sample ID: JS_10   |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-022 | 24-Aug-2023 00:00 | J11 Sample ID: JS_11   |                                         | ✓                                    | ✓                                          | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-023 | 24-Aug-2023 00:00 | J12 Sample ID: JS_12   |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-024 | 24-Aug-2023 00:00 | J13 Sample ID: JS_13   |                                         | ✓                                    |                                            | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-025 | 24-Aug-2023 00:00 | J14 Sample ID: JS_14   |                                         | ✓                                    | ✓                                          | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-026 | 24-Aug-2023 00:00 | J15 Sample ID: JS_15   |                                         | ✓                                    | ✓                                          | ✓                                                            | ✓                                 | ✓                               |
| ES2329175-027 | 24-Aug-2023 00:00 | J8_B Sample ID: JS_... | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-028 | 24-Aug-2023 00:00 | J5_B Sample ID: JS_... | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-029 | 24-Aug-2023 00:00 | J7_B Sample ID: JS_... | ✓                                       |                                      |                                            |                                                              |                                   |                                 |
| ES2329175-030 | 24-Aug-2023 00:00 | J11_B Sample ID: JS... |                                         | ✓                                    |                                            | ✓                                                            |                                   | ✓                               |

## Proactive Holding Time Report

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

## Requested Deliverables

### B STUART

- \*AU Certificate of Analysis - NATA (COA)
- \*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- \*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

|       |                     |
|-------|---------------------|
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |
| Email | bstuart@geolyse.com |

### INVOICES Accounts

- A4 - AU Tax Invoice (INV)

|       |                         |
|-------|-------------------------|
| Email | accounts@premise.com.au |
|-------|-------------------------|



## QA/QC Compliance Assessment to assist with Quality Review

|              |                       |                         |                                 |
|--------------|-----------------------|-------------------------|---------------------------------|
| Work Order   | : ES2329175           | Page                    | : 1 of 9                        |
| Client       | : PREMISE NSW Pty Ltd | Laboratory              | : Environmental Division Sydney |
| Contact      | : B STUART            | Telephone               | : +61-2-8784 8555               |
| Project      | : 123050 RRD          | Date Samples Received   | : 29-Aug-2023                   |
| Site         | : ----                | Issue Date              | : 06-Sep-2023                   |
| Sampler      | : B. Searl            | No. of samples received | : 30                            |
| Order number | : ----                | No. of samples analysed | : 23                            |

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.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

#### Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

#### Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.

### Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

| Compound Group Name                           | Laboratory Sample ID | Client Sample ID   | Analyte                   | CAS Number | Data   | Limits    | Comment                                                   |
|-----------------------------------------------|----------------------|--------------------|---------------------------|------------|--------|-----------|-----------------------------------------------------------|
| <b>Matrix Spike (MS) Recoveries</b>           |                      |                    |                           |            |        |           |                                                           |
| EP080/071: Total Petroleum Hydrocarbons       | ES2329175--012       | J1 Sample ID: JS_1 | <b>C29 - C36 Fraction</b> | ----       | 135 %  | 52.0-132% | <b>Recovery greater than upper data quality objective</b> |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>Mecoprop</b>           | 93-65-2    | 53.8 % | 60.0-140% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>MCPA</b>               | 94-74-6    | 51.6 % | 57.0-143% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>2,4-D</b>              | 94-75-7    | 49.8 % | 68.0-139% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>2,4,5-T</b>            | 93-76-5    | 42.7 % | 57.0-142% | <b>Recovery less than lower data quality objective</b>    |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2315418--001       | Anonymous          | <b>Clopyralid</b>         | 1702-17-6  | 27.0 % | 49.0-149% | <b>Recovery less than lower data quality objective</b>    |

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.

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 VOC in soils 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

| Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample Date | Extraction / 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)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15,<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023 | ----                     | ----               | ----       | 01-Sep-2023   | 07-Sep-2023      | ✓          |  |
| Soil Glass Jar - Unpreserved (EA055)<br>S1 - Sample ID: SS_1,<br>S5 - Sample ID: SS_5,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11<br>S3 - Sample ID: SS_3,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,                                                                                                                                                                                                                                                | 24-Aug-2023 | ----                     | ----               | ----       | 04-Sep-2023   | 07-Sep-2023      | ✓          |  |



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sample Date | Extraction / Preparation |                    |            | Analysis      |                  |            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|--|
| Container / Client Sample ID(s)                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Date extracted           | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |  |
| EG005(ED093)T: Total Metals by ICP-AES                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EG005T)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15,<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023 | 01-Sep-2023              | 20-Feb-2024        | ✔          | 04-Sep-2023   | 20-Feb-2024      | ✔          |  |
| Soil Glass Jar - Unpreserved (EG005T)<br>S5 - Sample ID: SS_5                                                                                                                                                                                                                                                                                                                                                                                                          | 24-Aug-2023 | 04-Sep-2023              | 20-Feb-2024        | ✔          | 04-Sep-2023   | 20-Feb-2024      | ✔          |  |
| EG035T: Total Recoverable Mercury by FIMS                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EG035T)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15,<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | 24-Aug-2023 | 01-Sep-2023              | 21-Sep-2023        | ✔          | 05-Sep-2023   | 21-Sep-2023      | ✔          |  |
| Soil Glass Jar - Unpreserved (EG035T)<br>S5 - Sample ID: SS_5                                                                                                                                                                                                                                                                                                                                                                                                          | 24-Aug-2023 | 04-Sep-2023              | 21-Sep-2023        | ✔          | 05-Sep-2023   | 21-Sep-2023      | ✔          |  |
| EP068A: Organochlorine Pesticides (OC)                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EP068)<br>S1 - Sample ID: SS_1,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,<br>J1 - Sample ID: JS_1,<br>S3 - Sample ID: SS_3,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11,<br>J2 - Sample ID: JS_2                                                                                                                                                                                                                        | 24-Aug-2023 | 02-Sep-2023              | 07-Sep-2023        | ✔          | 04-Sep-2023   | 12-Oct-2023      | ✔          |  |
| Soil Glass Jar - Unpreserved (EP068)<br>S5 - Sample ID: SS_5,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15                           | 24-Aug-2023 | 02-Sep-2023              | 07-Sep-2023        | ✔          | 05-Sep-2023   | 12-Oct-2023      | ✔          |  |



Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                                  | Sample Date                                                                                                                                                                       | Extraction / Preparation |                    |             | Analysis      |                  |             |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------------|---------------|------------------|-------------|---|
| Container / Client Sample ID(s)                                                                                                                                                                                                                         |                                                                                                                                                                                   | Date extracted           | Due for extraction | Evaluation  | Date analysed | Due for analysis | Evaluation  |   |
| EP068B: Organophosphorus Pesticides (OP)                                                                                                                                                                                                                |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP068)<br>S1 - Sample ID: SS_1,<br>S8 - Sample ID: SS_8,<br>S10 - Sample ID: SS_10,<br>J1 - Sample ID: JS_1,                                                                                                              | S3 - Sample ID: SS_3,<br>S9 - Sample ID: SS_9,<br>S11 - Sample ID: SS_11,<br>J2 - Sample ID: JS_2                                                                                 | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP068)<br>S5 - Sample ID: SS_5,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14,<br>J11_B - Sample ID: JS_11_B | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 12-Oct-2023 | ✔ |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons                                                                                                                                                                                                          |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15  | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                                                                            | Sample Date                                                                                                                                                                       | Extraction / Preparation |                    |             | Analysis      |                  |             |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------------|---------------|------------------|-------------|---|
| Container / Client Sample ID(s)                                                                                                                                                                                                                   |                                                                                                                                                                                   | Date extracted           | Due for extraction | Evaluation  | Date analysed | Due for analysis | Evaluation  |   |
| EP080/071: Total Petroleum Hydrocarbons                                                                                                                                                                                                           |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP071)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15 | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                                                                     | J15 - Sample ID: JS_15                                                                                                                                                            | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,                                                    | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14                           | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                                                                      |                                                                                                                                                                                   | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions                                                                                                                                                                                   |                                                                                                                                                                                   |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP071)<br>J1 - Sample ID: JS_1,<br>J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J7 - Sample ID: JS_7,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,<br>J15 - Sample ID: JS_15 | J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14, | 24-Aug-2023              | 02-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 12-Oct-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                                                                     | J15 - Sample ID: JS_15                                                                                                                                                            | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13,                                                    | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14                           | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                                                                      |                                                                                                                                                                                   | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |



Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

| Method                                                                                                                                                                                         | Sample Date                                                                                                                                             | Extraction / 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 (EP080)<br>J7 - Sample ID: JS_7,                                                                                                                                  | J15 - Sample ID: JS_15                                                                                                                                  | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 02-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J2 - Sample ID: JS_2,<br>J4 - Sample ID: JS_4,<br>J6 - Sample ID: JS_6,<br>J9 - Sample ID: JS_9,<br>J11 - Sample ID: JS_11,<br>J13 - Sample ID: JS_13, | J3 - Sample ID: JS_3,<br>J5 - Sample ID: JS_5,<br>J8 - Sample ID: JS_8,<br>J10 - Sample ID: JS_10,<br>J12 - Sample ID: JS_12,<br>J14 - Sample ID: JS_14 | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 07-Sep-2023 | ✔ |
| Soil Glass Jar - Unpreserved (EP080)<br>J1 - Sample ID: JS_1                                                                                                                                   |                                                                                                                                                         | 24-Aug-2023              | 31-Aug-2023        | 07-Sep-2023 | ✔             | 05-Sep-2023      | 07-Sep-2023 | ✔ |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS                                                                                                                                                  |                                                                                                                                                         |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP202)<br>S3 - Sample ID: SS_3,<br>S8 - Sample ID: SS_8,<br>S11 - Sample ID: SS_11,<br>J6 - Sample ID: JS_6,<br>J14 - Sample ID: JS_14,                          | S5 - Sample ID: SS_5,<br>S10 - Sample ID: SS_10,<br>J4 - Sample ID: JS_4,<br>J11 - Sample ID: JS_11,<br>J15 - Sample ID: JS_15                          | 24-Aug-2023              | 01-Sep-2023        | 07-Sep-2023 | ✔             | 04-Sep-2023      | 11-Oct-2023 | ✔ |





## Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

| Quality Control Sample Type                        |            | Count |         | Rate (%) |          |            | Quality Control Specification  |
|----------------------------------------------------|------------|-------|---------|----------|----------|------------|--------------------------------|
| Analytical Methods                                 | Method     | QC    | Regular | Actual   | Expected | Evaluation |                                |
| Laboratory Duplicates (DUP)                        |            |       |         |          |          |            |                                |
| Moisture Content                                   | EA055      | 6     | 59      | 10.17    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                  | EP075(SIM) | 2     | 15      | 13.33    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 3     | 30      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 2     | 19      | 10.53    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 4     | 40      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 4     | 40      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 2     | 15      | 13.33    | 10.00    | ✓          | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 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 (SIM)                                  | EP075(SIM) | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                 | EP068      | 2     | 30      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL) | EP202      | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                              | EG035T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                            | EG005T     | 2     | 40      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                        | EP071      | 1     | 15      | 6.67     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                 | EP080      | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |



## Brief Method Summaries

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

| Analytical Methods                                         | Method     | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Moisture Content                                           | EA055      | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                |
| Total Metals by ICP-AES                                    | EG005T     | SOIL   | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)                                                                                                              |
| Total Mercury by FIMS                                      | EG035T     | SOIL   | In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl <sub>2</sub> ) (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 SnCl <sub>2</sub> 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) |
| 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)                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                                                                                                        |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)         | EP202      | SOIL   | In house: LCMS (Electrospray in negative mode). Residues of acid herbicides are extracted from soil samples under the alkaline condition. An aliquot of the alkaline aqueous phase is taken and acidified before a SPE cleanup. After eluting off from the SPE cartridge, residues of acid herbicides are dissolved in HPLC mobile phase prior to instrument analysis.                                                                                                                                     |
| Preparation Methods                                        | Method     | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hot Block Digest for metals in soils sediments and sludges | EN69       | SOIL   | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).                                                                                                       |
| Extraction for Phenoxy Acid Herbicides in Soils.           | EP202-PR   | SOIL   | In-House: Alkaline extract followed by SPE clean up of acidified portion of the sample extract.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                                                                          |



| 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. |