



7 August 2023

**Ross Closter**  
Bacchus Marsh Property Group  
Level 1, 237 Ryrie Street,  
Geelong, VIC, 3220

Ref:20220134-R-04.1

**Letter of Advice in Relation to 124 & 150 Hopetoun Park Road and 62 Cowans Road, Hopetoun Park, VIC**

Dear Ross,

The following Letter of Advice is provided in relation to a current Planning Scheme Amendment application for the following properties:

- 124 Hopetoun Park Road, Hopetoun Park, Victoria, Victoria 3340;
- 150 Hopetoun Park Road, Hopetoun Park, Victoria, Victoria 3340; and
- 62 Cowans Road, Hopetoun Park, Victoria 3340.

In September 2021 BMPG lodged a Planning Scheme Amendment application to rezone the whole Hopetoun Park North Growth Area, including properties both east and west of Hopetoun Park Road, from Farming Zone (FZ) to Neighbourhood Residential Zone (NRZ). Subsequent to this, due to a range of factors including ecological considerations, the rezoning application has been amended to only include the above three properties on the western side of Hopetoun Park Road only.

EPA Victoria advised the Planning Authority (Moorabool Shire Council) in a letter dated 18 November 2021<sup>1</sup> that Council must, in preparing a Planning Scheme Amendment, and in accordance with Ministerial Direction 1<sup>2</sup> (MD1), *"satisfy itself whether or not the land, or parts of the land, are potentially contaminated"*.

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<sup>1</sup> EPA Victoria Letter titled :RE: "MOORABOOL PLANNING SCHEME AMENDMENT C103 – HOPETOUN PARK NORTH". Ref: REQ001393, 18/11/2021.

<sup>2</sup> Planning and Environment Act 1987 Section 12(1A) Ministerial Direction No.1 Potentially Contaminated Land. 15 August 2021.

In response BMPG engaged Helia EHS Pty Ltd (Helia)<sup>3</sup> to conduct a Preliminary Site Investigation (PSI)<sup>4</sup> including a Site History Review (SRH) and targeted soil assessment, to assess whether the land, or parts of the land, are potentially contaminated. The SRH identified several areas at 124 Hopetoun Park Road a with potential for contamination. These areas were further investigated as part of the targeted soil assessment. Based on the general absence of contamination identified in these areas they were concluded to be low risk and as such no further investigation was considered necessary.

EPA Victoria, following receipt of the 2022 PSI report, provided further advice to Council in a letter dated 22 February 2023<sup>5</sup>. The letter advised that Council needs to, in accordance with MD1, satisfy itself that the land is either potentially contaminated or not. In response BMPG engaged to Helia to remediate an area that had reported marginal soil contamination, i.e. at sheds located at 124 Hopetoun Park Road property. Remediation involved excavation of the contaminated soil with validation sampling to demonstrate remediation had been completed to the necessary standard. The contaminated soil was disposed off-Site to a lawful place in accordance the relevant Regulations under the EP Act 2017. Details of the soil remediation program are provided in the attached Soil Remediation Report.

Ministerial Direction 1 states potentially contaminated land means land:

- a. *“used or known to have been used for industry or mining;*
- b. *used or known to have been used for the storage of chemicals, gas, waste or liquid fuel (other than minor above-ground storage that is ancillary to another use of the land); or*
- c. *where a known past or present activity or event (occurring on or off the land) may have caused contamination on the land”.*

Following completion of the PSI and subsequent soil remediation, and based on the guidance provided in Ministerial Direction 1, it is concluded the properties covered in this Letter of Advice are **not potentially contaminated**.

Yours sincerely,



Garry Masur

Principal Environmental Consultant

**Attachments:**

1. EPA letter to Moorabool Shire Council dated 18 November 2021
2. EPA letter to Moorabool Shire Council dated 22 February 2023
3. Soil Remediation Report

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<sup>3</sup> Trading as Edge Group Pty Ltd at the time, prior to rebranding as Helia EHS Pty Ltd in May 2023.

<sup>4</sup> Edge Group (2022) " Preliminary Site Investigation, 124 Hopetoun Park Road, Hopetoun Park, VIC". Ref: 20220134-R-01.2, 20/07/2022.

<sup>5</sup> EPA Victoria Letter titled :RE: "MOORABOOL PLANNING SCHEME AMENDMENT C103 – HOPETOUN PARK NORTH". Ref: REQ002884, 22/02/2023.

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## **EPA letter to Moorabool Shire Council dated 18 November 2021**

18 November 2021

Liam Prescott  
Strategic Planner  
Moorabool Shire Council  
PO Box 18  
BALLAN VIC 3342



Our Ref: REQ001393

Dear Liam

## **RE: MOORABOOL PLANNING SCHEME AMENDMENT C103 – HOPETOUN PARK NORTH**

Thank you for the opportunity to provide a response in relation to proposed Moorabool Planning Scheme Amendment C103 at Hopetoun Park North, referred to the Environment Protection Authority (EPA) via email on 21 October 2021.

### **Ministerial Direction 19**

Ministerial Direction 19 (MD19) requires planning authorities to seek early advice from EPA when undertaking strategic planning processes and preparing planning scheme amendments that may significantly impact Victoria's environment, amenity and/or human health due to pollution and waste.

EPA's consideration and advice on relevant planning matters is intended to support decisions made by planning authorities in the early stages of the planning process.

It is in this context that EPA provides the comments below.

### **Our Understanding of the Proposal**

EPA understands the proposal is to rezone 148.98 hectares of land in Hopetoun Park from the Farming Zone (FZ) to the Neighbourhood Residential Zone (NRZ), apply a Development Plan Overlay (DPO), Design and Development Overlay (DDO), and remove the existing Design and Development Overlay (DDO2) and Significant Landscape Overlay (SLO1).

It is understood that the assessment of potentially contaminated land is proposed to be deferred via the DPO schedule.

### **Environment Protection Act 2017 and the General Environmental Duty (GED)**

The *Environment Protection Act* 2017 (EP Act 2017) commenced on 1 July 2021. The new legislation changed Victoria's focus for environment protection and human health to a prevention-based approach, underpinned by the general environmental duty (GED).

The GED applies to all Victorians and is an ongoing obligation separate to any other permission. Under the GED, a person who is engaging in an activity that may give rise to risks of harm to human health or the environment from pollution or waste must minimise those risks so far as reasonably practicable.



EPA has published guidance on what constitutes reasonably practicable minimisation of risks of harm (see EPA Publication 1856).

The updated environmental protection framework supports industry, government, and the community to minimise the risks of harm to human health and the environment from pollution and waste.

Whilst the process of making a strategic planning decision is not subject to the GED, planning and responsible authorities should understand the effect planning decisions may have on the ability of those with a duty to meet obligations under the EP Act 2017.

### **Potentially Contaminated Land**

The existing FZ land is stated to having been previously used for agricultural purposes. The Explanatory Report correctly identifies that *Planning Practice Note 30 – Potentially Contaminated Land*, DELWP, 2021 (PPN30) states that whilst most agricultural land is not likely to be contaminated, the potential for specific contaminating activities to have occurred over time should be considered, including: commercial use of pesticides (including herbicides, fungicides etc); biosolids application to land; and farm waste disposal. These activities are generally identified as having a medium potential for contamination.

It appears that Council has not sought further clarification on if the land has been used for these activities. Instead, it is proposed that the DPO schedule include a requirement for environmental site assessments to be undertaken as part of the Development Plan process which currently requires at Clause 4.0 Requirements for Development Plan:

*An environmental assessment prepared by a suitably qualified environmental professional which assesses the potential level and nature of contamination on the land (if any). The assessment must provide clear advice on whether the environmental condition of the land is suitable for the proposed use/s and whether an environmental audit of all, or part, of the land is recommended having regard to the Potentially Contaminated Land General Planning Practice Note 30 July 20021, DELWP, including recommended remediation actions for any contaminated land.*

In doing so, it appears that Council has misinterpreted Ministerial Direction 1 (MD1) and PPN30. EPA reminds Council of the requirements of MD1 which requires the following:

5. *In preparing an amendment which allows (whether or not subject to the grant of a permit) land to be used for a sensitive use, children’s playground or secondary school a planning authority must:*
  - a) *satisfy itself whether or not the land, or parts of the land, are potentially contaminated;*
  - b) *where it has determined that the land is not potentially contaminated, state the determination in the amendment Explanatory Report; and*
  - c) *where it has determined the land, or parts of the land, are potentially contaminated, must state the determination in the amendment Explanatory Report and satisfy itself that the environmental conditions of that land are or will be suitable for that use*

In meeting the requirements of MD1, the first step is identifying if the land is potentially contaminated. It is not appropriate to defer the consideration of potentially contaminated land including the determination of if land is potentially contaminated to the development stage. This information is necessary to inform the need for appropriate planning controls to be included in the amendment, for example the application of the Environmental Audit Overlay (EAO).

“Is land potentially contaminated” on page 4 of PPN30 provides information which supports the planning authority in determining if land is potentially contaminated. This includes consulting council records,

EPA/DELWP publicly available databases, and applicant information. If there is insufficient information to determine the current and historical uses of land and its surrounds following the review of information sources in Table 1, PPN30 recommends a Site History Review (SHR) be commissioned to gather further information.

It is important not to overlook the value of the SHR process set out in PPN30 whereby this forms an important gateway as to the determination of whether land is 'potentially contaminated' and whether any further assessment is required as part of a rezoning or planning scheme amendment process.

The SHR may (or may not) build on initial steps taken by a planning authority to determine whether land is potentially contaminated. The SHR should:

- be carried out by a suitably qualified environmental consultant or urban planner;
- should include completion of the steps set out in PPN30; and
- should include a recommendation on whether the land meets the definition of potentially contaminated land. (Refer Appendix 2, PPN30)

Land which does not meet the definition of potentially contaminated land does not require any further assessment and a statement should be included in the Explanatory Report to this effect.

If land is deemed to be potentially contaminated, PPN30 outlines the appropriate level of assessment, based on the proposal. In this case, should land be determined to be potentially contaminated due to commercial use of pesticides (including herbicides, fungicides etc), biosolids application to land or farm waste disposal, noting that these uses have a 'medium' potential for contamination in accordance with PPN30.

For sites which have a 'medium' potential for contamination under PPN30 and the proposed zoning of the land allows sensitive uses to be established, PPN30 now recommends a Preliminary Risk Screen Assessment (PRSA) to determine the need for an audit, or the environmental audit option applies.

Once the appropriate level of assessment is determined, the planning authority can consider the deferral of assessment (i.e., PRSA or environmental audit), if the planning authority determines that undertaking this assessment prior to notice of the amendment being given is difficult or inappropriate. Deferral would generally be via the application of the EAO. PPN30 provides guidance on what constitutes 'difficult or inappropriate' under "Is assessment required at the time of the amendment?"

EPA recommends Council follow the process detailed above to determine if the land is potentially contaminated and subsequently inform the planning controls necessary to support the amendment.

### **Managing Conflict between Incompatible Uses**

Clause 13.07-1S Land use compatibility of the Planning Policy Framework aims to protect community amenity, human health and safety while facilitating appropriate commercial, industrial or other uses with potential adverse off-site impacts. Many land uses have the potential to produce off-site impacts, such as noise, dust and odour.

Council should give consideration to any existing or proposed industry in the area, including the need for the establishment and maintenance of separation distances to both minimise the potential for offsite human health and amenity impacts such as odour, dust and noise, and protect existing industry from encroachment of sensitive land uses. Encroachment by sensitive uses into the separation distances of industry should be avoided to prevent future land use conflicts.

## Noise

EPA understands a Traffic Noise Impact Assessment has been undertaken by Arup, 3 August 2021 to assess the potential impacts from traffic noise on the subject site. Whilst the assessment was completed after the commencement of the EP Act 2017, it appears that it has not had consideration of the updated policy (refer below).

The Environment Reference Standard (ERS) came into effect with the commencement of the EP Act 2017. Part 3 of the ERS for Ambient Sound includes a table with indicators and objectives for the ambient (outdoor) acoustic environment, which differ across land use categories. Not meeting the objectives indicates an increased risk to the environmental values. However, the ERS must not be used as a proxy for attaining compliance with the GED.

The ERS is relevant for activities that are not directly regulated but may interact with the ambient sound environment. This can be either by directly emitting noise or increasing sound sources in the environment indirectly such as by increased traffic movements. In this context, consideration of the ERS – Ambient Sound is relevant when assessing strategic planning proposals where noise is identified as a relevant risk.

Strategic planning has the effect of facilitating the future establishment of land use and development that may interact with the ambient sound environment, however, until established are not directly regulated by the noise limits set by the Environment Protection Regulations (which also came into effect 1 July 2021).

The ERS – Ambient Sound can be used to assess whether a proposal poses a risk to human health and the environment from noise. This may include consideration of whether:

- the proposal would change the sound of the ambient environment;
- sounds emitted from a proposed land use would adversely affect or pose a risk to the environmental values; and
- **the environmental values of the proposed land use may be adversely affected by sounds emitted from surrounding land uses.**

**\*\*bolded for emphasis to indicate relevance to the proposal.**

EPA has not undertaken a technical review of the Traffic Noise Impact Assessment however it is noted that the report includes recommendations for a 1.5 metres high earth mound and screen planting to minimise potential noise impacts which are proposed to be implemented via the DPO schedule. Council should determine if the existing assessment is sufficient to inform the proposal noting that it appears that the requirements of the EP Act 2017 have not been considered.

## Summary and Recommendations

EPA has some recommendations for the amendment which can be summarised as:

- Revisit the process in PPN30 to determine if the land is potentially contaminated and inform the planning controls necessary to support the amendment;
- Consider any existing or proposed industry with separation distances that may impact on or be impacted by this amendment; and
- Give further consideration to potential noise impacts including if updates are necessary for the assessment to be consistent with the requirements of the EP Act 2017.

## Closing

EPA is willing to meet to discuss our comments and our ongoing involvement in this process to ensure that EPA supports this planning process effectively.

If our assessment is not aligned with your view of the environmental risk, or if the proposal is amended, please contact Kaylee Thompson, Planning Advisor on 1300 EPA VIC (1300 372 842), or at [stratplan@epa.vic.gov.au](mailto:stratplan@epa.vic.gov.au).

Yours sincerely,



Trisha Brice  
Team Leader – Strategic Planning Advisory  
Development Advisory  
Environment Protection Authority Victoria

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## **EPA letter to Moorabool Shire Council dated 22 February 2023**

22 February 2023

Liam Prescott  
Strategic Planner  
Moorabool Shire Council  
PO Box 18  
BALLAN VIC 3342



Our Ref: REQ002884

Dear Liam,

## **RE: MOORABOOL PLANNING SCHEME AMENDMENT C103 – HOPETOUN PARK NORTH**

Thank you for the opportunity to provide further advice in relation to the aforementioned Planning Scheme Amendment (the Amendment), in accordance with Ministerial Direction 19 (MD19). The Environment Protection Authority (EPA) are in receipt of the following documents emailed on the 8 and 15 December 2022 respectively:

- 124 Hopetoun Park North Hopetoun Park, VIC Preliminary Site Investigation, prepared by Edge Group Pty Ltd, July 2022; and
- Hopetoun Park Rezoning Traffic Noise Impact Assessment Report 02 Final, prepared by Arup Australia Pty Ltd, 3 August 2021.

### **Previous Advice**

EPA previously provided advice to Council (EPA Ref: REQ001393, dated 18 November 2021) on the Amendment, in accordance with MD19. In summary, our advice recommended that:

- Council revisits the process in Planning Practice Note 30 – *Potentially Contaminated Land* (DELWP, 2021) (PPN30), including consideration of the Site History Review (SHR) process, to determine if the land is potentially contaminated and inform the planning controls necessary to support the amendment;
- Consider any existing or proposed industry with separation distances that may impact on or be impacted by this amendment; and
- Give further consideration to potential noise impacts including if updates are necessary for the assessment to be consistent with the requirements of the EP Act 2017.

### **Our Understanding of the Proposal**

Based on previous information received, EPA understands the Amendment seeks to:

- Rezone 148.98 hectares of land in Hopetoun Park from the Farming Zone (FZ) to the Neighbourhood Residential Zone (NRZ); and
- Apply a Development Plan Overlay (DPO), Design and Development Overlay (DDO), and remove the existing Design and Development Overlay (DDO2) and Significant Landscape Overlay (SLO1).

It is understood that the assessment of potentially contaminated land is proposed to be deferred via the DPO schedule.

The land includes:

- 124 Hopetoun Park Road, Hopetoun Park, (including the Cowans Road escarpment directly west);
- 150 Hopetoun Park Road, Hopetoun Park;

[epa.vic.gov.au](http://epa.vic.gov.au)

Environment Protection Authority Victoria  
GPO Box 4395, Melbourne VIC 3001  
1300 372 842



- 97 Hopetoun Park Road, Hopetoun Park;
- 189 Hopetoun Park Road, Hopetoun Park;
- 219 Hopetoun Park Road, Hopetoun Park;
- 249 Hopetoun Park Road, Hopetoun Park;
- 259 Hopetoun Park Road, Hopetoun Park; and
- 30 Kyle Lane, Hopetoun Park (together referred to as the Site).

## EPA Advice

The following comments and advice should be read in conjunction with previous advice provided to Council.

### Potentially Contaminated Land

In previous advice, EPA recommended that consideration should be given to undertaking a SHR to determine if land is 'potentially contaminated land', and then determine the appropriate level of assessment, as required.

### *Preliminary Site Investigation*

Since providing this advice, a Preliminary Site Investigation (PSI) has been prepared. EPA has not undertaken a technical review of the PSI; however, we highlight the following key findings and information.

- The PSI included a SHR, site inspection and soil sampling;
- The PSI identified the Site's historical and current use for farming and residential purposes, and further states that *"although the current Site use is essentially rural residential with small-scale 'hobby' farming, larger scale commercial farming activities would have occurred historically"*.
- Small stockpiles were also observed;
- The PSI identified potentially contaminating activities associated with the sheds at 124 Hopetoun Park Road including the use and storage of fuels, automotive and agricultural chemicals;
- Targeted soil sampling results included:
  - The sheds at 124 Hopetoun Park Road. Findings included surficial petroleum hydrocarbons but concluded that the extent of impact was unlikely to be widespread and not considered to represent a *"significant risk to protected environmental values under the current land use"*.
  - The former horse training track at 124 Hopetoun Park Road. The results of soil testing indicated that any residual material was not elevated in potential contaminants and would be *"unlikely to pose a risk to current or future Site users"*.
  - Stockpiled soil located at the northern portion of 249 Hopetoun Park Road. The stockpile was tested for a broad range of potential contaminants, none of which were reported at elevated concentrations. On this basis the stockpiled material is considered suitable for reuse at the Site.
- Referencing PPN30, and in particular, Table 2, the PSI states that *"the Site has a Medium or High potential for contamination due to historical potentially contaminating activities and the imported fill material. Therefore, the recommended level of assessment would be A/B: PRSA or audit option"*.
- The PSI states that *"instead of proceeding to a PRSA or audit, a targeted soil assessment has been undertaken as part of this PSI to confirm the potential for contamination at the identified high and medium risk areas"*.

- The PSI concludes that the Site has a low risk of contamination. On this basis no further investigation is considered necessary in planning for redevelopment of the Site to a sensitive land use.
- Identified that properties within the Site that were not accessible for inspection as part of this PSI should be inspected to confirm the low risk of contamination classification.

#### *Observations:*

- In accordance with PPN30, a PSI is not the recommended form of assessment for this scenario (refer Table 3, PPN30). The PSI correctly identifies the appropriate level of assessment; however, the PSI was completed instead.
- A PSI may be used to determine whether land is 'potentially contaminated land'.
- The PSI identifies the Site's former and current uses/activities for farming, and stockpiles of imported fill.
- It appears that the Site was not used for 'Agriculture and animal production' in accordance with PPN30.
- Stockpiles of imported fill is a land use that carries a 'medium' potential for contamination. Where there is a 'medium potential for contamination, and a sensitive land use may be established on the land, PPN30 recommends the completion of a PRSA (or the audit option applies).
- However, as a result of the results of targeted soil testing, the potential for contamination was downgraded to 'low'.
- The PSI concludes that the site:
  - is not considered to represent a 'significant risk' to protected environmental values;
  - 'unlikely to pose a risk' to current or future Site users; and
  - has a 'low' potential for contamination.

#### *Recommendations:*

- To meet the requirements of MD1, the planning authority will need to satisfy itself that the land is either potentially contaminated or not. If the land is potentially contaminated, PPN30 sets out the recommended level of assessment for land which has been determined to have a 'medium' potential for contamination.
- Council should consider whether the findings/conclusions of the PSI would satisfy the requirements of MD1, having regard to EPA's observations above. Council may wish to seek clarification from the proponent regarding the PSI conclusion. This would also include updating the conclusion of the Assessment, i.e., the land is either potentially contamination or not, noting the requirements to satisfy MD1.

#### Noise Impacts

A Traffic Noise Impact Assessment (the Assessment) has now been provided. EPA notes the Assessment was prepared prior to our previous letter to Council. EPA'S Senior Scientist – (Noise Air, Odour & Noise Sciences unit) has undertaken a technical review of the Assessment. Comments are provided below accordingly:

#### *Observations:*

- The Assessment considers that neither the Environment Reference Standard (ERS) nor the Environment Protection Act 2017 (EP Act 2017) apply to the Amendment. This is based on the following:
  - The Site will not contribute to noise levels and is not a noise emitter; and



- The VicRoads Traffic Noise Reduction Policy, February 2005 (the VicRoads Policy) applies to road traffic noise.
- This approach is not consistent with *Clause 13.05 - Noise* of the Moorabool Planning Scheme. Where the policy documents to be considered as relevant include:
  - Environment Reference Standard (ERS) (Gazette No. S 245, 26 May 2021)

The VicRoads policy for road traffic noise is not listed as a policy document in the planning scheme.
- Under the EP Act 2017, the general environmental duty (GED) applies to all activities, and this may include risk of harm posed by development of land. Beyond the use of VicRoads Policy adopted to inform the design of a noise barrier, the Assessment has not considered the risk of harm and how these can be minimised so far as reasonably practicable.
- The Assessment uses the VicRoads Policy, as well as VicRoads Requirements of Developers, 2004 to assess road traffic noise and determine and design noise mitigation at the Site, for land closest the Western Freeway. Options for noise mitigation include:
  - a noise barrier combined with locating dwellings set back from the northern boundary, or
  - use of façade construction to achieve internal noise levels consistent with AS2107 if a noise barrier is not considered an efficient approach.
- This means that the risk of harm from road traffic noise to development of the whole Site was not assessed consistent with the GED nor informed by the ERS - Ambient Sound, and therefore has not appropriately considered.
- Higher noise barriers or the use of parkland or roads informed by detailed design and site layout stages can be appropriate responses to manage road traffic noise impacts. However, the use of VicRoads Policy and guidelines to inform the risk is not consistent with State of Knowledge of the risks and management of road traffic noise. Instead, the risks should be assessed using State of Knowledge on road traffic noise and the ERS.

#### *Recommendations:*

The Assessment should be revised as follows:

- The output from the noise modelling in the Assessment should be refined to indicate noise contours across the site (as  $L_{Aeq}$ ) to show noise levels further away from the Western Freeway to inform the risk to environmental values in the ERS, from road traffic noise levels across the site.
- The revised presentation of noise modelling results should be used to inform noise mitigation options consistent with Clause 13.05 of the Moorabool Planning Scheme, which is **[bold added for emphasis]**-
 

*Ensure that development is not prejudiced and community amenity and human health is not adversely impacted by noise emissions.*

*Minimise the impact on human health from noise exposure to occupants of sensitive land uses (residential use, child care centre, school, education centre, residential aged care centre or hospital) near the transport system and other noise emission sources through **suitable building siting and design (including orientation and internal layout), urban design and land use separation techniques** as appropriate to the land use functions and character of the area.*
- Recommendations for barriers heights should consider the risk of harm to upper floors if 2 storey (or higher) dwellings are envisaged. This may not have been included in the current noise level modelling as VicRoads Policy only applies to the ground floor.
- Any noise mitigation measures included in the Assessment to address noise impacts should be consistent with VPP Clause 13.05, which considers:
  - barriers;
  - building siting and design (orientation, layout);
  - urban design and land use separation; and
  - building façade materials and construction.

- Based on a revised Assessment addressing the above dot points, the proponent should use this Assessment to inform the preparation of the Development Plan for development of the Site, and it is the mitigation measures recommended in the revised Assessment that should be referred to in the DPO12, with the current requirement deleted.

## Summary and Closing

EPA considers that Council needs to carefully consider where the findings of the PSI would address the requirements of MD1, having regard to the advice set out in this letter. In addition, we have provided recommended revisions to the Traffic Noise Impact Assessment, so that due regard is given to the ERS and EP Act 2017, and reasonable steps are taken to adequately protect future sensitive land uses from noise impacts.

We would be happy to engage in a discussion with you regarding the comments set out in this letter. If our assessment is not aligned with your view of the environmental risk, or if the proposal is subsequently amended, please contact Kristen Argus, Senior Planning Advisor on 1300 EPA VIC (1300 372 842).

Yours sincerely,



Trisha Brice  
Team Leader, Strategic Planning Advisory  
Development Advisory  
Environment Protection Authority Victoria

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# Soil Remediation Report



**4/08/2023**

Ross Closter  
Bacchus Marsh Property Group  
Level 1, 237 Ryrie Street  
Geelong, VIC, 3220

**Ref: 20220134-R-05**

Dear Ross,

**Subject: Remediation Report for 124 Hopetoun Park Road, Hopetoun Park, Victoria, 3340**

## **1. Introduction**

Helia EHS (Helia) was engaged by Bacchus Marsh Property Group (BMPG) (the Client) to complete a Preliminary Site Investigation (PSI) at several properties as a part of an application to rezone from Farming Zone to Neighbourhood Residential Zone. Targeted soil testing at 124 Hopetoun Park Road identified marginal surficial petroleum hydrocarbon soil contamination in the sheds area. The following report provides details of the soil remediation works conducted to remove this contamination.

### **1.1 Objectives**

The overarching objective of the remediation works is to remove the contaminated soil and thereby make the land suitable for the proposed future uses.

### **1.2 Scope**

Remediation works were conducted in accordance with the general requirements of the National Environment Protection Council, National Environment Protect (Assessment of Site Contamination) Measure, 1999 (as amended in 2013) (NEPM 2013).

Works conducted by Helia included:

- Oversight of remedial excavation works at the former sheds area.
- Collection of validation samples from the excavation base and walls.
- Collection of stockpile samples from excavated material for waste soil classification.
- Logging of soils (both remediated and stockpiled) encountered including screening samples for volatile organic compounds (VOCs) using a photoionisation detector (PID).

- Analysis of samples at a National Association of Testing Authorities (NATA) accredited laboratory to evaluate the success of the remediation works and categorise stockpiled soils for off-Site disposal.

### 1.3 Standards of Assessment

Remediation works were conducted in general accordance with industry best practice approaches and methodologies, as outlined in the following legislation, guidelines and standards:

- Australian Standard (AS) 4482.1-2005, Guide to the Investigation and Sampling of Site with Potentially Contaminated Soil, Part 1: Non-Volatile Substances, 2005 (AS4482.1-2005)
- AS 4482.2-1999, Guide to the Investigation and Sampling of Site with Potentially Contaminated Soil, Part 2: Volatile Substances, 2005 (AS4482.2-1999)
- Environment Protection Act 2017, Environmental Reference Standard, No. S 245, May 2021.
- Environment Protection Regulations (EPR) 2021. S.R. No. 47/2021, 25 May 2021.
- EPA Victoria (2021) *Waste classification assessment protocol*, Publication 1827.2, March 2021.
- EPA Victoria (2021) *Waste Disposal Categories – Characteristics and Thresholds*, Publication 1828.2, March 2021.
- EPA Victoria (2009) *Soil Sampling*, Publication IWRG702, June 2009.
- National Environment Protection Council (NEPC), National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No.1) – Amendment of the National Environment Protection (Assessment of Site Contamination) Measure (NEPM), 1999 (NEPM 2013).
- Victorian Government Gazette (2021), Environment Reference Standard. No. S 245 Wednesday 26 May 2021

## 2. Soil Remediation and Validation

### 2.1 Remediation Methodology

Helia staff attended the Site on 22 June 2023 to oversee the excavation of contaminated soil from the shed area at 124 Hopetoun Park Road, specifically at areas previously sampled as BH09 and BH10, as shown on Attachment Figure 1. The excavated soil was stockpiled at an area adjacent to the excavation. Helia staff collected validation samples from excavation walls and floor and stockpile samples immediately following completion of excavation works.

The sampling scope and methodology for the validation and stockpile sampling is summarised in Table 1.

*Table 1 - Soil Investigation Summary*

| Assessment                       | Details                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sample Locations.</b>         | Six (6) excavation validation sample locations; two from the excavation's floor (VAL01-1, VAL01-2) and four from excavation walls (VAL01-3 to VAL01-6).<br>Ten (10) samples from the stockpile containing excavated soil (SP01-1 to SP01-10).<br>Sample locations are shown in Figure 1. |
| <b>Methodology</b>               | Earthmoving / excavation works were completed by an independent contractor under Helia's supervision.<br>Samples from the excavation walls and floor, and from the stockpile, were collected by Helia staff using a trowel.                                                              |
| <b>Sampling Methodology</b>      | Samples were collected directly into sample jars provided by the laboratory and were stored in chilled containers for delivery to the analytical laboratories under Chain of Custody documentation.                                                                                      |
| <b>Soil Logging</b>              | Soil samples were logged by Helia experienced environmental scientist / engineer. Sample Logs are provided in Appendix B.                                                                                                                                                                |
| <b>Field Screening</b>           | Soil samples were screened in the field for the presence volatile organic compounds (VOC) using a photoionisation detector (PID).<br>The PID calibration certificate is provided in Appendix C.                                                                                          |
| <b>Equipment Decontamination</b> | Field sampling equipment was decontaminated prior to use at each sampling location to limit the potential for cross-contamination. Decontamination of field equipment involved scrubbing in a detergent solution (i.e. Decon 90®), potable water and finally deionised water.            |

Figure 1 and 2 below were taken to demonstrate the excavation area of the remediation and the undisturbed natural soils at the base of the excavation.



Figure 1: Remediation excavation showing undisturbed natural soil at the excavation base.



Figure 2: Soil and validation sample VAL01-2 at the excavation base.

## 2.2 Laboratory Analytical Program

All six validation samples and three selected stockpile samples were submitted for laboratory analysis of potential contaminants as outlined in Table 2.

The laboratory analysis was conducted at the ALS Springvale laboratory, which has National Association of Testing Authorities (NATA) accreditation for the analyses performed. NATA-accredited laboratory reports and chain of custody documentation are provided in Appendix D.

*Table 2 – Soil Laboratory Analytical Schedule*

| Samples           | Analysis               |
|-------------------|------------------------|
| <b>Excavation</b> |                        |
| VAL01-1 – VAL01-6 | TRH, BTEXN             |
| <b>Stockpile</b>  |                        |
| SP01-1            | EPA 1828.2 Fill Screen |
| SP01-6            | NEPM 15 Metals         |

### Notes

EPA 1828.2 Fill Screen: pH, BTEXN, TRH, phenolics, CHC, halogenated benzenes, cyanide, fluoride, MAH, metals (including CrVI), OCP, PAH, PCB

NEPM 15 Metals Screen: As, B, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Pb, Se, V, Zn, Hg

BTEXN: benzene, toluene, ethyl benzene, xylenes, naphthalene

TRH: total recoverable hydrocarbons

## 2.3 Soil Field Observations

A summary of soil conditions observed during remediation are summarised in Table 3. Field records are presented in Appendix B.

Table 3 – Summary of Observed Soil Conditions

| Sample Location         | Typical Depth Interval (mbgl) | Typical Description                                                                                                                                                   | PID readings (ppm) |
|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Excavation Area (Base)  | 0 – 0.3                       | Silty CLAY: reddish brown, dry, firm to very firm. Basaltic bedrock (possibly 'floaters') were observed at some parts of the excavation floor.                        | 0.4 – 0.6          |
| Excavation Area (Walls) | 0 - 0.1                       | Reworked natural CLAY with silt: reddish brown, dry, firm, with minor crushed rock gravel present.                                                                    | 0.4                |
|                         |                               | Silty CLAY: brown, dry, firm to very firm.                                                                                                                            | 0.4                |
| Stockpile               | N/A                           | Silty CLAY: reddish brown, slightly moist – dry, firm, with fine to medium grained gravels. Anthropogenic materials including some hay / straw and plastic fragments. | 0.3 – 0.4          |

Field observations made during the soil sampling program did not identify any obvious indications of soil contamination (i.e. odorous, discoloured or stained soils). The results of PID screening indicate there is low potential for volatile organic compounds (VOC) to be present in the samples collected.

## 2.4 Validation and Stockpile Analytical Results

Analytical results for on-Site retention assessment are presented in appended Table A1 and waste soil classification results are presented in appended Table A2. NATA-accredited laboratory reports and chain of custody documentation are provided in Appendix D.

### 2.4.1 On-Site Retention / Suitability for Use

All validation samples reported contaminants previously reported at elevated concentrations in BH09 and BH10 at concentrations either below the laboratory limits of reporting (LOR) or below all adopted assessment criteria. On this basis the results of validation soil testing indicate the remediation actions have been successful and soil conditions are acceptable for the proposed future use.

### 2.4.2 Waste Categorisation for Off-Site Disposal

Categorisation for off-Site disposal of stockpiled soil was conducted through comparison of laboratory results against criteria provided in EPA Publication 1828.2 *Waste disposal categories – characteristics and thresholds* (March 2021). The waste categorisation report is included in this report as Appendix E.

Stockpiled soils were categorised as Category D / Industrial Waste and as such the waste was transported in accordance with Victorian EPA legislation to a lawful place, i.e. the Maddingley Brown Coal landfill in Bacchus Marsh.



The total quantity of soil disposed off-Site was 40.64 tonnes as noted on the EPA Waste Record included in Appendix F.

## 2.5 Data Quality Review – Validation and Stockpile Sample Analysis

The following section summaries the key data quality indicators (DQI) used to assess the accuracy, completeness, representativeness, comparability and sensitivity of the soil data, in accordance with NEPM (2013) Schedule B2.

Table 4 – Data Quality Review

| Item                                       | Data Quality Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>QC Duplicate Analysis</b>               | Eight primary soil samples were submitted for laboratory analysis. FD01 was sampled as a blind duplicate of Val01-3 and submitted for laboratory analysis at the primary laboratory (ALS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Soil RPD Results</b>                    | <p>A relative percentage difference (RPD) was calculated for the FD01 / VAL01-3 duplicate pair to obtain a quantitative measure of the accuracy of the results obtained. An RPD range of 30% to 50% is generally considered acceptable, as outlined in AS4482.1-2005 and NEPM 2013. The RPD data is provided in appended Table A3.</p> <p>The RPD values were calculated using the formula:</p> $\text{RPD}\% = \frac{(X_1 - X_2)}{M} \times 100$ <p>Where:<br/> <math>X_1</math> = primary sample result<br/> <math>X_2</math> = duplicate sample result<br/> <math>M</math> = mean result of parent and duplicate</p> <p>1 of the 21 RPD results (i.e. 4.7%) for chemical analyses exceeded the adopted acceptable range, with a maximum RPD of 75% being reported. The small number of elevated RPD values reflects the inherent chemical heterogeneity of soils and is not considered to represent a significant data quality issue.</p> |
| <b>Laboratory Limit of Reporting (LOR)</b> | Laboratory LORs were in all cases lower than adopted assessment criteria. On this basis the sensitivity of laboratory analysis is adequate to assess risk to protected Environmental Values and thereby achieve assessment objectives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Rinsate Blank Analysis</b>              | <p>One rinsate blank (RB01) was collected from the field sampling equipment was submitted for laboratory analysis of key potential contaminants.</p> <p>Analytical results for the rinsate blank sample is provided in appended Table A4.</p> <p>All analytes tested were reported at concentrations below laboratory LORs. The results of rinsate blank analysis indicate adequate decontamination procedures were adopted as part the soil sampling program.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Laboratory QA/QC</b>                    | <p>Laboratory internal QC testing reports are included with the laboratory reports in Appendix D. The results of laboratory internal QC testing are summarised as follows:</p> <ul style="list-style-type: none"> <li>• No Method Blank value outliers occur.</li> <li>• No Duplicate outliers occur.</li> <li>• No Laboratory Control outliers occur.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Item                                         | Data Quality Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | <ul style="list-style-type: none"> <li>• No surrogate recovery outliers occur for all regular sample matrices.</li> <li>• No Analysis Holding Time outliers exist.</li> <li>• Matrix spike recovery outliers were reported for the analysis of total petroleum hydrocarbons C29 – C36 fraction.</li> <li>• Quality Control sample frequency outliers are noted for TRH – Semivolatile fraction analysis on both soil and water samples.</li> <li>• The relatively small number of laboratory internal QC outliers does not constitute a data quality issue of any significance to the findings of the Assessment.</li> </ul> |
| <b>NATA Endorsement of Laboratory Report</b> | The ALS laboratory report was stamped with the NATA endorsement stamp and signature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Data Completeness</b>                     | The data quality review indicates no significant systematic errors in the data collection process and therefore, the data set used as the basis for the report is considered valid and complete.                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 3. Limitations

The findings of this report are based on the Scope of Work outlined in the Helia proposals (Helia Ref.: **20220134-P-03**.) Helia performed the services in a manner consistent with the expected level of care and expertise exercised by those in the environmental profession.

No other warranty, expressed or implied, is made as to the professional advice included in this report. It is prepared in accordance with the scope of work and for the purpose outlined in the Proposal.

Although normal standards of professional practice have been applied, the methodology adopted, and sources of information used by Helia are outlined in this report. Helia has made no independent verification of this information beyond the agreed scope of works and assumes no responsibility for any inaccuracies or omissions. No indications were found during our investigations that information contained in this report as provided to Helia was false.

All conclusions and recommendations made in the report are the professional opinions of the Helia personnel involved with the project and, while normal checking of the accuracy of data has been conducted, Helia assumes no responsibility or liability for errors in data obtained from regulatory agencies or any other external sources, nor from occurrences outside the scope of this project. Helia have not undertaken a site inspection and hence cannot provide certainty on the current site status/setting.

Yours sincerely,



**Author:**

**Ella Denton**

Environmental Consultant

**Helia EHS**



**Reviewer:**

**Garry Masur**

Principal Environmental Consultant

**Helia EHS**

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# Figures

## Attachment Figure 1: Sampling Location Plan





- Legend
- Previous Soil Investigation Bore Locations
  - Validation Sample Locations
  - ▨ Remediation Stockpile Location
  - ▨ Remedial Excavation Extent

GDA2020  
MGA Zone 55

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|                                                                                           |           |                       |          |
|-------------------------------------------------------------------------------------------|-----------|-----------------------|----------|
| Sampling Location Plan<br>Validation Report<br>124 Hopetoun Park Road, Hopetoun Park, VIC |           |                       |          |
| A3                                                                                        | Drawn: ED | Date: 04/08/2023      | Figure 1 |
|                                                                                           | Rev.: 0   | Project No.: 20220134 |          |



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# Appendix A: Analytical Tables



Table A1 - Remediation and Validation  
On-Site Retention

Helia Project Number: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road,  
Hopetoun Park, VIC, 3340

|              |                           |                               |              | Chemical Group | BTEX              |         |                   |                 |                |            |                   |            | TRH                  |                        |                        |                                          |                        |                        |
|--------------|---------------------------|-------------------------------|--------------|----------------|-------------------|---------|-------------------|-----------------|----------------|------------|-------------------|------------|----------------------|------------------------|------------------------|------------------------------------------|------------------------|------------------------|
|              |                           |                               |              | Analyte        | Naphthalene (VOC) | Benzene | Toluene           | Ethylbenzene    | Xylene (m & p) | Xylene (o) | Xylene Total      | Total BTEX | C6-C10 Fraction (F1) | C6-C10 (F1 minus BTEX) | >C10-C16 Fraction (F2) | >C10-C16 Fraction (F2 minus Naphthalene) | >C16-C34 Fraction (F3) | >C34-C40 Fraction (F4) |
|              |                           |                               |              | Unit           | mg/kg             | mg/kg   | mg/kg             | mg/kg           | mg/kg          | mg/kg      | mg/kg             | mg/kg      | mg/kg                | mg/kg                  | mg/kg                  | mg/kg                                    | mg/kg                  | mg/kg                  |
|              |                           |                               |              | LOR            | 1                 | 0.2     | 0.5               | 0.5             | 0.5            | 0.5        | 0.5               | 0.2        | 10                   | 10                     | 50                     | 50                                       | 100                    | 100                    |
| NEPM 2013    | TRH Management Limits     | Res / Parkland, Fine Soil     |              |                | *                 | *       | *                 | *               | *              | *          | *                 | *          | 800 <sup>#1</sup>    | *                      | 1,000 <sup>#1</sup>    | *                                        | 3,500                  | 10,000                 |
|              | HSLs for Vapour Intrusion | Res A/B, Clay                 |              |                | 5 <sup>#2</sup>   | 0.7     | 480 <sup>#2</sup> | * <sup>#2</sup> | *              | *          | 110 <sup>#2</sup> | *          | *                    | 50 <sup>#3</sup>       | *                      | 280 <sup>#4#2</sup>                      | *                      | *                      |
|              | EILs                      | Urban Res & Public Open Space |              |                | 170               | *       | *                 | *               | *              | *          | *                 | *          | *                    | *                      | *                      | *                                        | *                      | *                      |
|              | ESLs                      | Urban Res, Fine Soil          |              |                | *                 | 65      | 105               | 125             | *              | *          | 45                | *          | *                    | 180 <sup>#5</sup>      | 120 <sup>#6</sup>      | 120 <sup>#7</sup>                        | 1,300                  | 5,600                  |
|              | HILs                      | Res A Soil                    |              |                | *                 | *       | *                 | *               | *              | *          | *                 | *          | *                    | *                      | *                      | *                                        | *                      | *                      |
| Sample Code  | Field ID                  | Date                          | Depth (mbgl) |                |                   |         |                   |                 |                |            |                   |            |                      |                        |                        |                                          |                        |                        |
| EM2311383001 | VAL01-1                   | 22 Jun 2023                   | 0.4          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | <100                   | <100                   |
| EM2311383002 | VAL01-2                   | 22 Jun 2023                   | 0.6          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | <100                   | <100                   |
| EM2311383003 | VAL01-3                   | 22 Jun 2023                   | 0.4          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | 160                    | <100                   |
| EM2311383004 | VAL01-4                   | 22 Jun 2023                   | 0.4          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | <100                   | <100                   |
| EM2311383005 | VAL01-5                   | 22 Jun 2023                   | 0.4          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | <100                   | <100                   |
| EM2311383006 | VAL01-6                   | 22 Jun 2023                   | 0.4          | <1             | <0.2              | <0.5    | <0.5              | <0.5            | <0.5           | <0.5       | <0.5              | <0.2       | <10                  | <10                    | <50                    | <50                                      | <100                   | <100                   |

Notes  
1 - NEPM 2013 Comm/Ind D and Res A/B HSL for Vapour Intrusion  
2 - NEPM 2013 - Generic Ecological Investigation Levels: Comm/Ind and Urban Residential and Public Spaces  
3 - NEPM 2013 Table 1B(6) ESLs for Comm/Ind and Urban Res  
4 - NEPM 2013 Table 1A(i) HILs Res A, B and Comm/Ind D Soil  
LOR - Limit of Reporting  
Shading indicates analyte exceeds the relevant trigger value (highest criterion applied).  
< Result is less than the laboratory limit of reporting (LOR)  
\* No Relevant Criteria





Table A1 - Remediation and Validation  
On-Site Retention

Helia Project Number: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road,  
Hopetoun Park, VIC, 3340

|              |                           | Chemical Group                |              | Inorganics       | TPH            |                  |                  |                  |                        |
|--------------|---------------------------|-------------------------------|--------------|------------------|----------------|------------------|------------------|------------------|------------------------|
|              |                           | Analyte                       |              | Moisture Content |                |                  |                  |                  |                        |
|              |                           |                               |              |                  | C6-C9 Fraction | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum) |
|              |                           |                               |              |                  |                |                  |                  |                  |                        |
|              |                           | Unit                          | %            | mg/kg            | mg/kg          | mg/kg            | mg/kg            | mg/kg            |                        |
|              |                           | LOR                           | 0.1          | 10               | 50             | 100              | 100              | 50               |                        |
| NEPM 2013    | TRH Management Limits     | Res / Parkland, Fine Soil     |              | *                | *              | *                | *                | *                | *                      |
|              | HSLs for Vapour Intrusion | Res A/B, Clay                 |              | *                | *              | *                | *                | *                | *                      |
|              | EILs                      | Urban Res & Public Open Space |              | *                | *              | *                | *                | *                | *                      |
|              | ESLs                      | Urban Res, Fine Soil          |              | *                | *              | *                | *                | *                | *                      |
|              | HILs                      | Res A Soil                    |              | *                | *              | *                | *                | *                | *                      |
| Sample Code  | Field ID                  | Date                          | Depth (mbgl) |                  |                |                  |                  |                  |                        |
| EM2311383001 | VAL01-1                   | 22 Jun 2023                   | 0.4          | 18.0             | <10            | <50              | <100             | <100             | <50                    |
| EM2311383002 | VAL01-2                   | 22 Jun 2023                   | 0.6          | 24.4             | <10            | <50              | <100             | <100             | <50                    |
| EM2311383003 | VAL01-3                   | 22 Jun 2023                   | 0.4          | 14.8             | <10            | <50              | <100             | 110              | 110                    |
| EM2311383004 | VAL01-4                   | 22 Jun 2023                   | 0.4          | 5.0              | <10            | <50              | <100             | <100             | <50                    |
| EM2311383005 | VAL01-5                   | 22 Jun 2023                   | 0.4          | 4.2              | <10            | <50              | <100             | <100             | <50                    |
| EM2311383006 | VAL01-6                   | 22 Jun 2023                   | 0.4          | 11.6             | <10            | <50              | <100             | <100             | <50                    |

Notes  
1 - NEPM 2013 Comm/Ind D and Res A/B HSL for Vapour Intrusion  
2 - NEPM 2013 - Generic Ecological Investigation Levels: Comm/Ind and Urban Residential and Public Spaces  
3 - NEPM 2013 Table 1B(6) ESLs for Comm/Ind and Urban Res  
4 - NEPM 2013 Table 1A(1) HILs Res A, B and Comm/Ind D Soil  
LOR - Limit of Reporting  
Shading indicates analyte exceeds the relevant trigger value (highest criterion applied).  
< Result is less than the laboratory limit of reporting (LOR)  
\* No Relevant Criteria



Table A2 - Remediation and Validation  
Off-Site Disposal

Helia Project No.: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road  
Hopetoun Park, VIC

|                                             |       |      |                              |                              |                              | Sample Code                     | EM2311383007 | EM2311383012 | EM2311383007 |
|---------------------------------------------|-------|------|------------------------------|------------------------------|------------------------------|---------------------------------|--------------|--------------|--------------|
|                                             |       |      |                              |                              |                              | Field ID                        | SP01-1       | SP01-6       | SP01-1       |
|                                             |       |      |                              |                              |                              | Date                            | 45099        | 45099        | 45099        |
| Analyte                                     | Unit  | EQL  | EPA Vic 1828.2<br>Category B | EPA Vic 1828.2<br>Category C | EPA Vic 1828.2<br>Category D | EPA Vic 1828.2<br>Fill Material |              |              |              |
| Acid Sulphate Soils                         |       |      |                              |                              |                              |                                 |              |              |              |
| pH (CaCl2)                                  | -     | 0.1  | *                            | *                            | *                            | *                               | 6.8          | -            |              |
| BTEX                                        |       |      |                              |                              |                              |                                 |              |              |              |
| Naphthalene (VOC)                           | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| Benzene                                     | mg/kg | 0.2  | 16                           | 4                            | 4                            | 1                               | <0.2         | -            |              |
| Toluene                                     | mg/kg | 0.5  | 12,800                       | 3,200                        | 3,200                        | *                               | <0.5         | -            |              |
| Ethylbenzene                                | mg/kg | 0.5  | 4,800                        | 1,200                        | 1,200                        | *                               | <0.5         | -            |              |
| Xylene (m & p)                              | mg/kg | 0.5  | *                            | *                            | *                            | *                               | <0.5         | -            |              |
| Xylene (o)                                  | mg/kg | 0.5  | *                            | *                            | *                            | *                               | <0.5         | -            |              |
| Xylene Total                                | mg/kg | 0.5  | 9,600                        | 2,400                        | 2,400                        | *                               | <0.5         | -            |              |
| TRH                                         |       |      |                              |                              |                              |                                 |              |              |              |
| C6-C10 Fraction (F1)                        | mg/kg | 10   | *                            | *                            | *                            | *                               | <10          | -            |              |
| C6-C10 (F1 minus BTEX)                      | mg/kg | 10   | *                            | *                            | *                            | *                               | <10          | -            |              |
| >C10-C16 Fraction (F2)                      | mg/kg | 50   | *                            | *                            | *                            | *                               | <50          | -            |              |
| >C10-C16 Fraction (F2 minus<br>Naphthalene) | mg/kg | 50   | *                            | *                            | *                            | *                               | <50          | -            |              |
| >C16-C34 Fraction (F3)                      | mg/kg | 100  | *                            | *                            | *                            | *                               | 150          | -            |              |
| >C34-C40 Fraction (F4)                      | mg/kg | 100  | *                            | *                            | *                            | *                               | <100         | -            |              |
| >C10-C40 Fraction (Sum)                     | mg/kg | 50   | *                            | *                            | *                            | *                               | 150          | -            |              |
| Phenols                                     |       |      |                              |                              |                              |                                 |              |              |              |
| 3&4-Methylphenol (m&p-cresol)               | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| 2,3,5,6-Tetrachlorophenol                   | mg/kg | 0.03 | *                            | *                            | *                            | *                               | <0.03        | -            |              |
| 2,4,5-Trichlorophenol                       | mg/kg | 0.05 | 64,000                       | 16,000                       | 16,000                       | *                               | <0.05        | -            |              |
| 2,4,6-Trichlorophenol                       | mg/kg | 0.05 | 320                          | 80                           | 80                           | *                               | <0.05        | -            |              |
| 2,4-Dichlorophenol                          | mg/kg | 0.03 | 3,200                        | 800                          | 800                          | *                               | <0.03        | -            |              |
| 2,4-Dimethylphenol                          | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| 2,4-Dinitrophenol                           | mg/kg | 5    | *                            | *                            | *                            | *                               | <5           | -            |              |
| 2,6-Dichlorophenol                          | mg/kg | 0.03 | *                            | *                            | *                            | *                               | <0.03        | -            |              |
| 2,3,4,5 & 2,3,4,6-Tetrachlorophenol         | mg/kg | 0.05 | *                            | *                            | *                            | *                               | <0.05        | -            |              |
| 2-Chlorophenol                              | mg/kg | 0.03 | 4,800                        | 1,200                        | 1,200                        | *                               | <0.03        | -            |              |
| 2-Methylphenol                              | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| 2-Nitrophenol                               | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| 4,6-Dinitro-2-methylphenol                  | mg/kg | 5    | *                            | *                            | *                            | *                               | <5           | -            |              |
| 4,6-Dinitro-o-cyclohexyl phenol             | mg/kg | 5    | *                            | *                            | *                            | *                               | <5           | -            |              |
| 4-chloro-3-methylphenol                     | mg/kg | 0.03 | *                            | *                            | *                            | *                               | <0.03        | -            |              |
| 4-Nitrophenol                               | mg/kg | 5    | *                            | *                            | *                            | *                               | <5           | -            |              |
| Pentachlorophenol                           | mg/kg | 0.2  | *                            | *                            | *                            | *                               | <0.2         | -            |              |
| Phenol                                      | mg/kg | 1    | *                            | *                            | *                            | *                               | <1           | -            |              |
| Phenols (halogenated) EPAVic                | mg/kg | 0.03 | *                            | *                            | *                            | 1 <sup>#2</sup>                 | <0.03        | -            |              |
| Phenols (non-halogenated) EPAVic            | mg/kg | 1    | 2,200 <sup>#1</sup>          | 560 <sup>#1</sup>            | 560 <sup>#1</sup>            | 60 <sup>#3</sup>                | <1           | -            |              |
| Chlorinated Hydrocarbons                    |       |      |                              |                              |                              |                                 |              |              |              |
| Chlorinated hydrocarbons EPAVic             | mg/kg | 0.01 | *                            | *                            | *                            | 1 <sup>#4</sup>                 | <0.01        | -            |              |
| 1,1,1,2-tetrachloroethane                   | mg/kg | 0.01 | 1,600                        | 400                          | 400                          | *                               | <0.01        | -            |              |
| 1,1,1-trichloroethane                       | mg/kg | 0.01 | 4,800                        | 1,200                        | 1,200                        | *                               | <0.01        | -            |              |
| 1,1,2,2-tetrachloroethane                   | mg/kg | 0.02 | 210                          | 52                           | 52                           | *                               | <0.02        | -            |              |
| 1,1,2-trichloroethane                       | mg/kg | 0.04 | 190                          | 48                           | 48                           | *                               | <0.04        | -            |              |
| 1,1-dichloroethene                          | mg/kg | 0.01 | 480                          | 120                          | 120                          | *                               | <0.01        | -            |              |
| 1,2-dichloroethane                          | mg/kg | 0.02 | 48                           | 12                           | 12                           | *                               | <0.02        | -            |              |
| Carbon tetrachloride                        | mg/kg | 0.01 | 48                           | 12                           | 12                           | *                               | <0.01        | -            |              |
| Chloroform                                  | mg/kg | 0.02 | 960                          | 240                          | 240                          | *                               | <0.02        | -            |              |
| cis-1,2-dichloroethene                      | mg/kg | 0.01 | *                            | *                            | *                            | *                               | <0.01        | -            |              |
| Dichloromethane                             | mg/kg | 0.4  | 64                           | 16                           | 16                           | *                               | <0.4         | -            |              |
| Hexachlorobutadiene                         | mg/kg | 0.02 | 11                           | 2.8                          | 2.8                          | *                               | <0.02        | -            |              |
| Trichloroethene                             | mg/kg | 0.02 | 80                           | 20                           | 20                           | *                               | <0.02        | -            |              |
| Tetrachloroethene                           | mg/kg | 0.02 | 800                          | 200                          | 200                          | *                               | <0.02        | -            |              |
| trans-1,2-dichloroethene                    | mg/kg | 0.02 | *                            | *                            | *                            | *                               | <0.02        | -            |              |
| Vinyl chloride                              | mg/kg | 0.02 | 4.8                          | 1.2                          | 1.2                          | *                               | <0.02        | -            |              |
| Halogenated Benzenes                        |       |      |                              |                              |                              |                                 |              |              |              |
| 1,2,4-trichlorobenzene                      | mg/kg | 0.01 | *                            | *                            | *                            | *                               | <0.01        | -            |              |
| 1,2-dichlorobenzene                         | mg/kg | 0.02 | 24,000                       | 6,000                        | 6,000                        | *                               | <0.02        | -            |              |
| 1,4-dichlorobenzene                         | mg/kg | 0.02 | 640                          | 160                          | 160                          | *                               | <0.02        | -            |              |
| Chlorobenzene                               | mg/kg | 0.02 | 4,800                        | 1,200                        | 1,200                        | *                               | <0.02        | -            |              |
| Hexachlorobenzene                           | mg/kg | 0.03 | *                            | *                            | *                            | *                               | <0.03        | -            |              |
| Herbicides                                  |       |      |                              |                              |                              |                                 |              |              |              |
| Dinoseb                                     | mg/kg | 5    | *                            | *                            | *                            | *                               | <5           | -            |              |
| Inorganics                                  |       |      |                              |                              |                              |                                 |              |              |              |
| Moisture Content                            | %     | 0.1  | *                            | *                            | *                            | *                               | 9.9          | 18.1         |              |
| Cyanide Total                               | mg/kg | 1    | 10,000                       | 2,500                        | 2,500                        | 50                              | <1           | -            |              |
| Fluoride                                    | mg/kg | 40   | 40,000                       | 10,000                       | 10,000                       | 450                             | 180          | -            |              |
| MAH                                         |       |      |                              |                              |                              |                                 |              |              |              |
| Monocyclic aromatic hydrocarbons<br>EPAVic  | mg/kg | 0.2  | *                            | *                            | *                            | 7 <sup>#5</sup>                 | <0.2         | -            |              |
| Styrene                                     | mg/kg | 0.5  | 480                          | 120                          | 120                          | *                               | <0.5         | -            |              |



Table A2 - Remediation and Validation  
Off-Site Disposal

Helia Project No.: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road  
Hopetoun Park, VIC

|                                  |       |      |                              |                              |                              |                                 | Sample Code | EM2311383007 | EM2311383012 | EM2311383007 |
|----------------------------------|-------|------|------------------------------|------------------------------|------------------------------|---------------------------------|-------------|--------------|--------------|--------------|
|                                  |       |      |                              |                              |                              |                                 | Field ID    | SP01-1       | SP01-6       | SP01-1       |
|                                  |       |      |                              |                              |                              |                                 | Date        | 45099        | 45099        | 45099        |
| Analyte                          | Unit  | EQL  | EPA Vic 1828.2<br>Category B | EPA Vic 1828.2<br>Category C | EPA Vic 1828.2<br>Category D | EPA Vic 1828.2<br>Fill Material |             |              |              |              |
| <b>Metals</b>                    |       |      |                              |                              |                              |                                 |             |              |              |              |
| Arsenic                          | mg/kg | 5    | 2,000                        | 500                          | 500                          | 20                              |             | 6            | 9            |              |
| Barium                           | mg/kg | 10   | 25,000                       | 6,250                        | 6,250                        | *                               |             | -            | 80           |              |
| Beryllium                        | mg/kg | 1    | 400                          | 100                          | 100                          | *                               |             | -            | 2            |              |
| Boron                            | mg/kg | 50   | 60,000                       | 15,000                       | 15,000                       | *                               |             | -            | <50          |              |
| Cadmium                          | mg/kg | 1    | 400                          | 100                          | 100                          | 3                               |             | <1           | <1           |              |
| Chromium (hexavalent)            | mg/kg | 0.5  | 2,000                        | 500                          | 500                          | 1                               |             | <0.5         | -            |              |
| Chromium (III+VI)                | mg/kg | 2    | *                            | *                            | *                            | *                               |             | -            | 37           |              |
| Cobalt                           | mg/kg | 2    | *                            | *                            | *                            | *                               |             | -            | 18           |              |
| Copper                           | mg/kg | 5    | 20,000                       | 5,000                        | 5,000                        | 100                             |             | 13           | 16           |              |
| Lead                             | mg/kg | 5    | 6,000                        | 1,500                        | 1,500                        | 300                             |             | 33           | 15           |              |
| Manganese                        | mg/kg | 5    | *                            | *                            | *                            | *                               |             | -            | 212          |              |
| Mercury                          | mg/kg | 0.1  | 300                          | 75                           | 75                           | 1                               |             | <0.1         | <0.1         |              |
| Molybdenum                       | mg/kg | 2    | 4,000                        | 1,000                        | 1,000                        | 40                              |             | <2           | -            |              |
| Nickel                           | mg/kg | 2    | 12,000                       | 3,000                        | 3,000                        | 60                              |             | 19           | 37           |              |
| Selenium                         | mg/kg | 5    | 40,000                       | 10,000                       | 10,000                       | 10                              |             | <5           | <5           |              |
| Silver                           | mg/kg | 2    | 720                          | 180                          | 180                          | 10                              |             | <2           | -            |              |
| Tin                              | mg/kg | 5    | *                            | *                            | *                            | 50                              |             | <5           | -            |              |
| Vanadium                         | mg/kg | 5    | *                            | *                            | *                            | *                               |             | -            | 71           |              |
| Zinc                             | mg/kg | 5    | 140,000                      | 35,000                       | 35,000                       | 200                             |             | 331          | 48           |              |
| Zinc                             | mg/L  | 0    | *                            | *                            | *                            | *                               |             |              |              | 0.7          |
| <b>Organochlorine Pesticides</b> |       |      |                              |                              |                              |                                 |             |              |              |              |
| Organochlorine pesticides EPAVic | mg/kg | 0.03 | *                            | *                            | *                            | 1 <sup>#6</sup>                 |             | <0.03        | -            |              |
| 4,4-DDE                          | mg/kg | 0.05 | *                            | *                            | *                            | *                               |             | <0.05        | -            |              |
| a-BHC                            | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Aldrin                           | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| b-BHC                            | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Chlordane                        | mg/kg | 0.03 | 16                           | 4                            | 4                            | *                               |             | <0.03        | -            |              |
| Chlordane (cis)                  | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Chlordane (trans)                | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| d-BHC                            | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| DDD                              | mg/kg | 0.05 | *                            | *                            | *                            | *                               |             | <0.05        | -            |              |
| DDT                              | mg/kg | 0.05 | *                            | *                            | *                            | *                               |             | <0.05        | -            |              |
| Dieldrin                         | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Endosulfan I                     | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Endosulfan II                    | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Endosulfan sulphate              | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Endrin                           | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Endrin aldehyde                  | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| g-BHC (Lindane)                  | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Heptachlor                       | mg/kg | 0.03 | 4.8                          | 1.2                          | 1.2                          | *                               |             | <0.03        | -            |              |
| Heptachlor epoxide               | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| Methoxychlor                     | mg/kg | 0.03 | *                            | *                            | *                            | *                               |             | <0.03        | -            |              |
| <b>PAH</b>                       |       |      |                              |                              |                              |                                 |             |              |              |              |
| Benzo(b+j+k)fluoranthene         | mg/kg | 1    | *                            | *                            | *                            | *                               |             | <1.0         | -            |              |
| Acenaphthene                     | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Acenaphthylene                   | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Anthracene                       | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Benzo(a)anthracene               | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Benzo(a) pyrene                  | mg/kg | 0.5  | 160                          | 40                           | 20                           | 1                               |             | <0.5         | -            |              |
| Benzo(g,h,i)perylene             | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Chrysene                         | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Dibenz(a,h)anthracene            | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Fluoranthene                     | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Fluorene                         | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Indeno(1,2,3-c,d)pyrene          | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Naphthalene                      | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Phenanthrene                     | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| Pyrene                           | mg/kg | 0.5  | *                            | *                            | *                            | *                               |             | <0.5         | -            |              |
| PAHs (Vic EPA List)              | mg/kg | 0.5  | 400 <sup>#1</sup>            | 100 <sup>#1</sup>            | 50 <sup>#1</sup>             | 20 <sup>#7</sup>                |             | <0.5         | -            |              |
| <b>PCBs</b>                      |       |      |                              |                              |                              |                                 |             |              |              |              |
| PCBs (Sum of total)              | mg/kg | 0.1  | 6                            | 50                           | 2                            | 2                               |             | <0.1         | -            |              |
| <b>TPH</b>                       |       |      |                              |                              |                              |                                 |             |              |              |              |
| C6-C9 Fraction                   | mg/kg | 10   | 2,600                        | 650                          | 325                          | 100                             |             | <10          | -            |              |
| C10-C14 Fraction                 | mg/kg | 50   | *                            | *                            | *                            | *                               |             | <50          | -            |              |
| C15-C28 Fraction                 | mg/kg | 100  | *                            | *                            | *                            | *                               |             | <100         | -            |              |
| C29-C36 Fraction                 | mg/kg | 100  | *                            | *                            | *                            | *                               |             | <100         | -            |              |
| C10-C36 Fraction (Sum)           | mg/kg | 50   | 40,000                       | 10,000                       | 5,000                        | 1,000                           |             | <50          | -            |              |

Environmental Standards  
EPA Victoria, July 2021, EPA Vic IWRG1828.2 Category B upper limit  
EPA Victoria, July 2021, EPA Vic IWRG1828.2 Category C upper limit  
EPA Victoria, July 2021, EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit  
EPA Victoria, July 2021, EPA Vic IWRG1828.2 Fill material upper limit





Table A3 - Remediation and Validation RPD's

Helia Project Number: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road,  
Hopetoun Park, VIC, 3340

|                                          |       | Lab Report Number | EM2311383  | EM2311383  | RPD |
|------------------------------------------|-------|-------------------|------------|------------|-----|
|                                          |       | Field ID          | VAL01-3    | FD01       |     |
|                                          |       | Date              | 22/06/2023 | 22/06/2023 |     |
|                                          |       | Matrix Type       | Soil       | Soil       |     |
| Analyte                                  | Unit  | LOR               |            |            |     |
| <b>BTEX</b>                              |       |                   |            |            |     |
| Naphthalene (VOC)                        | mg/kg | 1                 | <1         | <1         | 0   |
| Benzene                                  | mg/kg | 0.2               | <0.2       | <0.2       | 0   |
| Toluene                                  | mg/kg | 0.5               | <0.5       | <0.5       | 0   |
| Ethylbenzene                             | mg/kg | 0.5               | <0.5       | <0.5       | 0   |
| Xylene (m & p)                           | mg/kg | 0.5               | <0.5       | <0.5       | 0   |
| Xylene (o)                               | mg/kg | 0.5               | <0.5       | <0.5       | 0   |
| Xylene Total                             | mg/kg | 0.5               | <0.5       | <0.5       | 0   |
| Total BTEX                               | mg/kg | 0.2               | <0.2       | <0.2       | 0   |
| <b>TRH</b>                               |       |                   |            |            |     |
| C6-C10 Fraction (F1)                     | mg/kg | 10                | <10        | <10        | 0   |
| C6-C10 (F1 minus BTEX)                   | mg/kg | 10                | <10        | <10        | 0   |
| >C10-C16 Fraction (F2)                   | mg/kg | 50                | <50        | <50        | 0   |
| >C10-C16 Fraction (F2 minus Naphthalene) | mg/kg | 50                | <50        | <50        | 0   |
| >C16-C34 Fraction (F3)                   | mg/kg | 100               | 160        | 140        | 13  |
| >C34-C40 Fraction (F4)                   | mg/kg | 100               | <100       | <100       | 0   |
| >C10-C40 Fraction (Sum)                  | mg/kg | 50                | 160        | 140        | 13  |
| <b>Inorganics</b>                        |       |                   |            |            |     |
| Moisture Content                         | %     | 0.1               | 14.8       | 11.5       | 25  |
| <b>TPH</b>                               |       |                   |            |            |     |
| C6-C9 Fraction                           | mg/kg | 10                | <10        | <10        | 0   |
| C10-C14 Fraction                         | mg/kg | 50                | <50        | <50        | 0   |
| C15-C28 Fraction                         | mg/kg | 100               | <100       | <100       | 0   |
| C29-C36 Fraction                         | mg/kg | 100               | 110        | <100       | 10  |
| C10-C36 Fraction (Sum)                   | mg/kg | 50                | 110        | <50        | 75  |

**Notes**

LOR - Limit of Reporting

Shading indicates analyte exceeds the acceptable RPD limit

&lt; Result is less than the laboratory limit of reporting (LOR)

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

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



Table A4 - Remediation and Validation Blanks

Helia Project Number: 20220134  
Bacchus Marsh Property Group  
Validation Report  
124 Hopetoun Park Road,  
Hopetoun Park, VIC, 3340

|                                          |      | Lab Report Number | EM2311383  |
|------------------------------------------|------|-------------------|------------|
|                                          |      | Field ID          | RB01       |
|                                          |      | Date              | 22/06/2023 |
|                                          |      | Matrix Type       | Water      |
| Analyte                                  | Unit | LOR               |            |
| <b>BTEX</b>                              |      |                   |            |
| Naphthalene (VOC)                        | mg/L | 0.005             | <0.005     |
| Benzene                                  | µg/L | 1                 | <1         |
| Toluene                                  | µg/L | 2                 | <2         |
| Ethylbenzene                             | µg/L | 2                 | <2         |
| Xylene (m & p)                           | µg/L | 2                 | <2         |
| Xylene (o)                               | µg/L | 2                 | <2         |
| Xylene Total                             | µg/L | 2                 | <2         |
| Total BTEX                               | µg/L | 1                 | <1         |
| <b>TRH</b>                               |      |                   |            |
| C6-C10 Fraction (F1)                     | µg/L | 20                | <20        |
| C6-C10 (F1 minus BTEX)                   | µg/L | 20                | <20        |
| >C10-C16 Fraction (F2)                   | µg/L | 100               | <100       |
| >C10-C16 Fraction (F2 minus Naphthalene) | µg/L | 100               | <100       |
| >C16-C34 Fraction (F3)                   | µg/L | 100               | <100       |
| >C34-C40 Fraction (F4)                   | µg/L | 100               | <100       |
| >C10-C40 Fraction (Sum)                  | µg/L | 100               | <100       |
| <b>TPH</b>                               |      |                   |            |
| C6-C9 Fraction                           | µg/L | 20                | <20        |
| C10-C14 Fraction                         | µg/L | 50                | <50        |
| C15-C28 Fraction                         | µg/L | 100               | <100       |
| C29-C36 Fraction                         | µg/L | 50                | <50        |
| C10-C36 Fraction (Sum)                   | µg/L | 50                | <50        |

**Notes**

LOR - Limit of Reporting

< Result is less than the laboratory limit of reporting (LOR)

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# Appendix B: Field Records



- \* Excavated. approx. 300-400mm. into natural.
- some basalt floaters.
- natural: silty clay, red-brown, dry, firm.

## Sample Register

[illegible]

Generally, silty clay,  
red-brown.

Some basalt rock, minor anthropogenic inclusions i.e. timber, metal, hay, twine.

Page 1 of 1

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# Appendix C: Equipment Calibration Certificates

# Equipment Calibration Form

## RKI GX-6000 PID



**Enqip #:** 19792  
**Company:** Helia EHS Pty Ltd  
**Consultant:** Ella Denton  
**PO #:** 20220134  
**Certificate #:** 29165

### INSTRUMENT IDENTIFICATION

**Model Number:** GX-6000  
**Serial Number:** 883010028RN

### INSPECTION RECORD

**Flow Rate:** PASS      **Inlet Filter:** PASS  
**Buzzer:** PASS      **Date & Time:** PASS

### CALIBRATION DETAILS

| Parameters  | Standard  | Result   |
|-------------|-----------|----------|
| Air         | 0.0 ppm   | 0.0 ppm  |
| Isobutylene | 100.0 ppm | 99.9 ppm |

**Calibration Successful:** YES

**Calibrated By:** Owen Hvalica

**Test Date:** 21/06/2023



116 Thistlethwaite St, South Melbourne 3205  
P 1300 218 987

E info@enqip.com.au | W www.enqip.com.au

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## Appendix D: NATA Accredited Laboratory Reports









## CERTIFICATE OF ANALYSIS

**Work Order** : EM2311383  
**Client** : HELIA EHS PTY LTD  
**Contact** : ELLA DENTON  
**Address** : 423 CITY ROAD  
SOUTH MELBOURNE VIC 3205  
**Telephone** : ----  
**Project** : 20220134  
**Order number** : 20220134  
**C-O-C number** : ----  
**Sampler** : Ella Denton/ Garry Masur  
**Site** : Hopetoun Park  
**Quote number** : MEBQ/108/21 Primary Work  
**No. of samples received** : 18  
**No. of samples analysed** : 10

**Page** : 1 of 11  
**Laboratory** : Environmental Division Melbourne  
**Contact** : Celline Tamin  
**Address** : 4 Westall Rd Springvale VIC Australia 3171  
**Telephone** : +61-3-8549 9600  
**Date Samples Received** : 22-Jun-2023 13:30  
**Date Analysis Commenced** : 23-Jun-2023  
**Issue Date** : 03-Jul-2023 15:01



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                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |
| Sanjay Parekh   | LCMS Coordinator       | Melbourne Organics, Springvale, VIC   |



## General Comments

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

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

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

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

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

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

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

LOR = Limit of reporting

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

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-UT: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EP071: EM2311363\_010 Higher than expected matrix spike recovery due to sample matrix. Confirmed by re-extraction and re-analysis.



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | VAL01-1           | VAL01-2           | VAL01-3           | VAL01-4           | VAL01-5           |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |                   |     |       | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 |
| Compound                                                               | CAS Number        | LOR | Unit  | EM2311383-001     | EM2311383-002     | EM2311383-003     | EM2311383-004     | EM2311383-005     |
|                                                                        |                   |     |       | Result            | Result            | Result            | Result            | Result            |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>                     |                   |     |       |                   |                   |                   |                   |                   |
| Moisture Content                                                       | ----              | 0.1 | %     | 18.0              | 24.4              | 14.8              | 5.0               | 4.2               |
| <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              | 110               | <100              | <100              |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50               | <50               | 110               | <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              | 160               | <100              | <100              |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100              | <100              | <100              | <100              | <100              |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50               | <50               | 160               | <50               | <50               |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50               | <50               | <50               | <50               | <50               |
| <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>EP080S: TPH(V)/BTEX Surrogates</b>                                  |                   |     |       |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                                  | 17060-07-0        | 0.2 | %     | 91.4              | 87.1              | 94.1              | 97.3              | 96.0              |
| Toluene-D8                                                             | 2037-26-5         | 0.2 | %     | 84.4              | 81.3              | 88.6              | 90.4              | 86.7              |
| 4-Bromofluorobenzene                                                   | 460-00-4          | 0.2 | %     | 86.0              | 79.6              | 86.6              | 89.4              | 84.4              |

| Sub-Matrix: SOIL<br>(Matrix: SOIL)           |            |     |         | Sample ID         | VAL01-6           | SP01-1            | SP01-6            | FD01              | ---- |
|----------------------------------------------|------------|-----|---------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Sampling date / time                         |            |     |         | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ---- |
| Compound                                     | CAS Number | LOR | Unit    | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | -----             |      |
|                                              |            |     |         | Result            | Result            | Result            | Result            | ----              |      |
| EA001: pH in soil using 0.01M CaCl extract   |            |     |         |                   |                   |                   |                   |                   |      |
| pH (CaCl2)                                   | ----       | 0.1 | pH Unit | ----              | 6.8               | ----              | ----              | ----              |      |
| EA055: Moisture Content (Dried @ 105-110°C)  |            |     |         |                   |                   |                   |                   |                   |      |
| Moisture Content                             | ----       | 0.1 | %       | 11.6              | ----              | ----              | 11.5              | ----              |      |
| Moisture Content                             | ----       | 1.0 | %       | ----              | 9.9               | 18.1              | ----              | ----              |      |
| EG005(ED093)T: Total Metals by ICP-AES       |            |     |         |                   |                   |                   |                   |                   |      |
| Arsenic                                      | 7440-38-2  | 5   | mg/kg   | ----              | 6                 | 9                 | ----              | ----              |      |
| Barium                                       | 7440-39-3  | 10  | mg/kg   | ----              | ----              | 80                | ----              | ----              |      |
| Beryllium                                    | 7440-41-7  | 1   | mg/kg   | ----              | ----              | 2                 | ----              | ----              |      |
| Boron                                        | 7440-42-8  | 50  | mg/kg   | ----              | ----              | <50               | ----              | ----              |      |
| Cadmium                                      | 7440-43-9  | 1   | mg/kg   | ----              | <1                | <1                | ----              | ----              |      |
| Chromium                                     | 7440-47-3  | 2   | mg/kg   | ----              | ----              | 37                | ----              | ----              |      |
| Cobalt                                       | 7440-48-4  | 2   | mg/kg   | ----              | ----              | 18                | ----              | ----              |      |
| Copper                                       | 7440-50-8  | 5   | mg/kg   | ----              | 13                | 16                | ----              | ----              |      |
| Lead                                         | 7439-92-1  | 5   | mg/kg   | ----              | 33                | 15                | ----              | ----              |      |
| Manganese                                    | 7439-96-5  | 5   | mg/kg   | ----              | ----              | 212               | ----              | ----              |      |
| Molybdenum                                   | 7439-98-7  | 2   | mg/kg   | ----              | <2                | ----              | ----              | ----              |      |
| Nickel                                       | 7440-02-0  | 2   | mg/kg   | ----              | 19                | 37                | ----              | ----              |      |
| Selenium                                     | 7782-49-2  | 5   | mg/kg   | ----              | <5                | <5                | ----              | ----              |      |
| Silver                                       | 7440-22-4  | 2   | mg/kg   | ----              | <2                | ----              | ----              | ----              |      |
| Tin                                          | 7440-31-5  | 5   | mg/kg   | ----              | <5                | ----              | ----              | ----              |      |
| Vanadium                                     | 7440-62-2  | 5   | mg/kg   | ----              | ----              | 71                | ----              | ----              |      |
| Zinc                                         | 7440-66-6  | 5   | mg/kg   | ----              | 331               | 48                | ----              | ----              |      |
| EG035T: Total Recoverable Mercury by FIMS    |            |     |         |                   |                   |                   |                   |                   |      |
| Mercury                                      | 7439-97-6  | 0.1 | mg/kg   | ----              | <0.1              | <0.1              | ----              | ----              |      |
| EG048: Hexavalent Chromium (Alkaline Digest) |            |     |         |                   |                   |                   |                   |                   |      |
| Hexavalent Chromium                          | 18540-29-9 | 0.5 | mg/kg   | ----              | <0.5              | ----              | ----              | ----              |      |
| EK026SF: Total CN by Segmented Flow Analyser |            |     |         |                   |                   |                   |                   |                   |      |
| Total Cyanide                                | 57-12-5    | 1   | mg/kg   | ----              | <1                | ----              | ----              | ----              |      |
| EK040T: Fluoride Total                       |            |     |         |                   |                   |                   |                   |                   |      |
| Fluoride                                     | 16984-48-8 | 40  | mg/kg   | ----              | 180               | ----              | ----              | ----              |      |
| EP066: Polychlorinated Biphenyls (PCB)       |            |     |         |                   |                   |                   |                   |                   |      |
| Total Polychlorinated biphenyls              | ----       | 0.1 | mg/kg   | ----              | <0.1              | ----              | ----              | ----              |      |
| EP074A: Monocyclic Aromatic Hydrocarbons     |            |     |         |                   |                   |                   |                   |                   |      |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |                   |      |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|-------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                        |                   |      |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                    | CAS Number        | LOR  | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                             |                   |      |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons - Continued</b> |                   |      |       |           |                   |                   |                   |                   |       |
| Benzene                                                     | 71-43-2           | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| Toluene                                                     | 108-88-3          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Ethylbenzene                                                | 100-41-4          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| meta- & para-Xylene                                         | 108-38-3 106-42-3 | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Styrene                                                     | 100-42-5          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| ortho-Xylene                                                | 95-47-6           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| ^ Sum of monocyclic aromatic hydrocarbons                   | ----              | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| ^ Total Xylenes                                             | ----              | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| <b>EP074H: Naphthalene</b>                                  |                   |      |       |           |                   |                   |                   |                   |       |
| Naphthalene                                                 | 91-20-3           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| <b>EP074I: Volatile Halogenated Compounds</b>               |                   |      |       |           |                   |                   |                   |                   |       |
| Vinyl chloride                                              | 75-01-4           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1-Dichloroethene                                          | 75-35-4           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Methylene chloride                                          | 75-09-2           | 0.4  | mg/kg |           | ----              | <0.4              | ----              | ----              | ----  |
| trans-1,2-Dichloroethene                                    | 156-60-5          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| cis-1,2-Dichloroethene                                      | 156-59-2          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Chloroform                                                  | 67-66-3           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,1-Trichloroethane                                       | 71-55-6           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Carbon Tetrachloride                                        | 56-23-5           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| 1,2-Dichloroethane                                          | 107-06-2          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Trichloroethene                                             | 79-01-6           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,2-Trichloroethane                                       | 79-00-5           | 0.04 | mg/kg |           | ----              | <0.04             | ----              | ----              | ----  |
| Tetrachloroethene                                           | 127-18-4          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,1,2-Tetrachloroethane                                   | 630-20-6          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| 1,1,2,2-Tetrachloroethane                                   | 79-34-5           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Hexachlorobutadiene                                         | 87-68-3           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Chlorobenzene                                               | 108-90-7          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,4-Dichlorobenzene                                         | 106-46-7          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,2-Dichlorobenzene                                         | 95-50-1           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,2,4-Trichlorobenzene                                      | 120-82-1          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| ^ Sum of volatile chlorinated hydrocarbons                  | ----              | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| <b>EP075A: Phenolic Compounds (Halogenated)</b>             |                   |      |       |           |                   |                   |                   |                   |       |
| 2-Chlorophenol                                              | 95-57-8           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |                   |      |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|-------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                        |                   |      |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                    | CAS Number        | LOR  | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                             |                   |      |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP075A: Phenolic Compounds (Halogenated) - Continued</b> |                   |      |       |           |                   |                   |                   |                   |       |
| 2,4-Dichlorophenol                                          | 120-83-2          | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,6-Dichlorophenol                                          | 87-65-0           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 4-Chloro-3-methylphenol                                     | 59-50-7           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,4,5-Trichlorophenol                                       | 95-95-4           | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| 2,4,6-Trichlorophenol                                       | 88-06-2           | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| 2,3,5,6-Tetrachlorophenol                                   | 935-95-5          | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,3,4,5 &<br>2,3,4,6-Tetrachlorophenol                      | 4901-51-3/58-90-2 | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| Pentachlorophenol                                           | 87-86-5           | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| ^ Sum of Phenols (halogenated)                              | ----              | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| <b>EP075A: Phenolic Compounds (Non-halogenated)</b>         |                   |      |       |           |                   |                   |                   |                   |       |
| Phenol                                                      | 108-95-2          | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2-Methylphenol                                              | 95-48-7           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 3- & 4-Methylphenol                                         | 1319-77-3         | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2-Nitrophenol                                               | 88-75-5           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2,4-Dimethylphenol                                          | 105-67-9          | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2,4-Dinitrophenol                                           | 51-28-5           | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 4-Nitrophenol                                               | 100-02-7          | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 2-Methyl-4,6-dinitrophenol                                  | 8071-51-0         | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| Dinoseb                                                     | 88-85-7           | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 2-Cyclohexyl-4,6-Dinitrophenol                              | 131-89-5          | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| ^ Sum of Phenols (non-halogenated)                          | ----              | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| <b>EP075B: Polynuclear Aromatic Hydrocarbons</b>            |                   |      |       |           |                   |                   |                   |                   |       |
| Naphthalene                                                 | 91-20-3           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Acenaphthene                                                | 83-32-9           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Acenaphthylene                                              | 208-96-8          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Fluorene                                                    | 86-73-7           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Phenanthrene                                                | 85-01-8           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Anthracene                                                  | 120-12-7          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Fluoranthene                                                | 206-44-0          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Pyrene                                                      | 129-00-0          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Benz(a)anthracene                                           | 56-55-3           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Chrysene                                                    | 218-01-9          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |



| Sub-Matrix: SOIL<br>(Matrix: SOIL)                    |                   |      |       | Sample ID         | VAL01-6           | SP01-1            | SP01-6            | FD01              | ---- |
|-------------------------------------------------------|-------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Sampling date / time                                  |                   |      |       | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ---- |
| Compound                                              | CAS Number        | LOR  | Unit  | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | -----             |      |
|                                                       |                   |      |       | Result            | Result            | Result            | Result            | ----              |      |
| EP075B: Polynuclear Aromatic Hydrocarbons - Continued |                   |      |       |                   |                   |                   |                   |                   |      |
| Benzo(b+j) & Benzo(k)fluoranthene                     | 205-99-2 207-08-9 | 1.0  | mg/kg | ----              | <1.0              | ----              | ----              | ----              |      |
| Benzo(a)pyrene                                        | 50-32-8           | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Indeno(1.2.3.cd)pyrene                                | 193-39-5          | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Dibenz(a.h)anthracene                                 | 53-70-3           | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Benzo(g.h.i)perylene                                  | 191-24-2          | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Sum of polycyclic aromatic hydrocarbons             | -----             | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (zero)                           | -----             | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (half LOR)                       | -----             | 0.5  | mg/kg | ----              | 0.6               | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (LOR)                            | -----             | 0.5  | mg/kg | ----              | 1.2               | ----              | ----              | ----              |      |
| EP075I: Organochlorine Pesticides                     |                   |      |       |                   |                   |                   |                   |                   |      |
| alpha-BHC                                             | 319-84-6          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Hexachlorobenzene (HCB)                               | 118-74-1          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| beta-BHC                                              | 319-85-7          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| gamma-BHC                                             | 58-89-9           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| delta-BHC                                             | 319-86-8          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Heptachlor                                            | 76-44-8           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Aldrin                                                | 309-00-2          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Heptachlor epoxide                                    | 1024-57-3         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| cis-Chlordane                                         | 5103-71-9         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| trans-Chlordane                                       | 5103-74-2         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endosulfan 1                                          | 959-98-8          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDE                                              | 72-55-9           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Dieldrin                                              | 60-57-1           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endrin aldehyde                                       | 7421-93-4         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endrin                                                | 72-20-8           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endosulfan 2                                          | 33213-65-9        | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDD                                              | 72-54-8           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Endosulfan sulfate                                    | 1031-07-8         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDT                                              | 50-29-3           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Methoxychlor                                          | 72-43-5           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| ^ Sum of organochlorine pesticides                    | -----             | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| ^ Chlordane                                           | 57-74-9           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| EP080/071: Total Petroleum Hydrocarbons               |                   |      |       |                   |                   |                   |                   |                   |      |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                     |                   |     |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                                   |                   |     |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                               | CAS Number        | LOR | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                                        |                   |     |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons - Continued</b>             |                   |     |       |           |                   |                   |                   |                   |       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg |           | <10               | ----              | ----              | <10               | ----  |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg |           | ----              | <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               | ----  |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <b>140</b>        | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg |           | ----              | <b>150</b>        | ----              | ----              | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <b>140</b>        | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg |           | ----              | <b>150</b>        | ----              | ----              | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| >C10 - C16 Fraction minus Naphthalene (F2)                             | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| C6 - C10 Fraction minus BTEX (F1)                                      | C6_C10-BTEX       | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| <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              | ----  |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                        |            |       |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|---------------------------------------------------------------------------|------------|-------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                                      |            |       |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                                  | CAS Number | LOR   | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                                           |            |       |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP080: BTEXN - Continued</b>                                           |            |       |       |           |                   |                   |                   |                   |       |
| ^ 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>EP066S: PCB Surrogate</b>                                              |            |       |       |           |                   |                   |                   |                   |       |
| Decachlorobiphenyl                                                        | 2051-24-3  | 0.1   | %     |           | ----              | 85.8              | ----              | ----              | ----  |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                               |            |       |       |           |                   |                   |                   |                   |       |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 0.1   | %     |           | ----              | 98.0              | ----              | ----              | ----  |
| Toluene-D8                                                                | 2037-26-5  | 0.1   | %     |           | ----              | 100               | ----              | ----              | ----  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 0.1   | %     |           | ----              | 98.6              | ----              | ----              | ----  |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |       |       |           |                   |                   |                   |                   |       |
| Phenol-d6                                                                 | 13127-88-3 | 0.025 | %     |           | ----              | 81.7              | ----              | ----              | ----  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 0.025 | %     |           | ----              | 92.8              | ----              | ----              | ----  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 0.025 | %     |           | ----              | 81.5              | ----              | ----              | ----  |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |       |       |           |                   |                   |                   |                   |       |
| Nitrobenzene-D5                                                           | 4165-60-0  | 0.025 | %     |           | ----              | 80.1              | ----              | ----              | ----  |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 0.025 | %     |           | ----              | 80.8              | ----              | ----              | ----  |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 0.025 | %     |           | ----              | 86.8              | ----              | ----              | ----  |
| Anthracene-d10                                                            | 1719-06-8  | 0.025 | %     |           | ----              | 95.8              | ----              | ----              | ----  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 0.025 | %     |           | ----              | 95.6              | ----              | ----              | ----  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |       |       |           |                   |                   |                   |                   |       |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 0.2   | %     |           | 97.9              | ----              | ----              | 99.6              | ----  |
| Toluene-D8                                                                | 2037-26-5  | 0.2   | %     |           | 88.4              | ----              | ----              | 90.5              | ----  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 0.2   | %     |           | 87.5              | ----              | ----              | 88.8              | ----  |



## Analytical Results

|                                                                 |                   |     |           |                   |       |       |       |       |
|-----------------------------------------------------------------|-------------------|-----|-----------|-------------------|-------|-------|-------|-------|
| Sub-Matrix: WATER<br>(Matrix: WATER)                            |                   |     | Sample ID | RB01              | ----  | ----  | ----  | ----  |
| Sampling date / time                                            |                   |     |           | 22-Jun-2023 00:00 | ----  | ----  | ----  | ----  |
| Compound                                                        | CAS Number        | LOR | Unit      | EM2311383-018     | ----- | ----- | ----- | ----- |
| Result                                                          |                   |     |           | ----              | ----  | ----  | ----  | ----  |
| EP080/071: Total Petroleum Hydrocarbons                         |                   |     |           |                   |       |       |       |       |
| C6 - C9 Fraction                                                | ----              | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| C10 - C14 Fraction                                              | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| C15 - C28 Fraction                                              | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| C29 - C36 Fraction                                              | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| ^ C10 - C36 Fraction (sum)                                      | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions |                   |     |           |                   |       |       |       |       |
| C6 - C10 Fraction                                               | C6_C10            | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| ^ C6 - C10 Fraction minus BTEX (F1)                             | C6_C10-BTEX       | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| >C10 - C16 Fraction                                             | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| >C16 - C34 Fraction                                             | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| >C34 - C40 Fraction                                             | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| ^ >C10 - C40 Fraction (sum)                                     | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                    | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| EP080: BTEXN                                                    |                   |     |           |                   |       |       |       |       |
| Benzene                                                         | 71-43-2           | 1   | µg/L      | <1                | ----  | ----  | ----  | ----  |
| Toluene                                                         | 108-88-3          | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| Ethylbenzene                                                    | 100-41-4          | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| meta- & para-Xylene                                             | 108-38-3 106-42-3 | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ortho-Xylene                                                    | 95-47-6           | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ^ Total Xylenes                                                 | ----              | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ^ Sum of BTEX                                                   | ----              | 1   | µg/L      | <1                | ----  | ----  | ----  | ----  |
| Naphthalene                                                     | 91-20-3           | 5   | µg/L      | <5                | ----  | ----  | ----  | ----  |
| EP080S: TPH(V)/BTEX Surrogates                                  |                   |     |           |                   |       |       |       |       |
| 1,2-Dichloroethane-D4                                           | 17060-07-0        | 2   | %         | 106               | ----  | ----  | ----  | ----  |
| Toluene-D8                                                      | 2037-26-5         | 2   | %         | 89.8              | ----  | ----  | ----  | ----  |
| 4-Bromofluorobenzene                                            | 460-00-4          | 2   | %         | 95.6              | ----  | ----  | ----  | ----  |



## Surrogate Control Limits

| Sub-Matrix: SOIL                                                          |            | Recovery Limits (%) |      |
|---------------------------------------------------------------------------|------------|---------------------|------|
| Compound                                                                  | CAS Number | Low                 | High |
| <b>EP066S: PCB Surrogate</b>                                              |            |                     |      |
| Decachlorobiphenyl                                                        | 2051-24-3  | 41                  | 122  |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                               |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 59                  | 119  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 117  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 59                  | 123  |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |                     |      |
| Phenol-d6                                                                 | 13127-88-3 | 63                  | 134  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 60                  | 125  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 54                  | 129  |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |                     |      |
| Nitrobenzene-D5                                                           | 4165-60-0  | 63                  | 131  |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 61                  | 124  |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 69                  | 131  |
| Anthracene-d10                                                            | 1719-06-8  | 70                  | 133  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 59                  | 141  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 51                  | 125  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 125  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 56                  | 124  |
| Sub-Matrix: WATER                                                         |            | Recovery Limits (%) |      |
| Compound                                                                  | CAS Number | Low                 | High |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 73                  | 129  |
| Toluene-D8                                                                | 2037-26-5  | 70                  | 125  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 71                  | 129  |



## Automated Guideline Comparison Report

|                         |                                             |               |                                              |
|-------------------------|---------------------------------------------|---------------|----------------------------------------------|
| Work Order              | : <b>EM2311383</b>                          | Page          | : 1 of 24                                    |
| Client                  | : <b>HELIA EHS PTY LTD</b>                  | Laboratory    | : Environmental Division Melbourne           |
| Contact                 | : ELLA DENTON                               |               |                                              |
| Address                 | : 423 CITY ROAD<br>SOUTH MELBOURNE VIC 3205 | Address       | : 4 Westall Rd Springvale VIC Australia 3171 |
| E-mail                  | : ella.denton@heliaebs.au                   | E-mail        | : Celline.tamin@alsglobal.com                |
| Telephone               | : ----                                      | Telephone     | : +61-3-8549 9600                            |
| Facsimile               | : ----                                      | Facsimile     | : +61-3-8549 9626                            |
| Project                 | : 20220134                                  | Date Received | : 22-Jun-2023 13:30                          |
| Order number            | : 20220134                                  | Date Analysed | : 23-Jun-2023                                |
| C-O-C number            | : ----                                      | Date Issued   | : 03-Jul-2023 15:01                          |
| No. of samples received | : 18                                        |               |                                              |
| No. of samples analysed | : 10                                        | Quote number  | : MEBQ/108/21 Primary Work                   |

### General Comments

Only results in the 'Analytical Results' section have been compared to the guideline.

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





Summary of Thresholds Reached or Exceeded

EPA Victoria Publication1828.2 (2021) Table 3  
Table 3: Fill material contamination total concentration upper limit

| Client Sample ID | ALS Sample ID | Compound | Method | LOR | Limits      | Result    |
|------------------|---------------|----------|--------|-----|-------------|-----------|
| SP01-1           | EM2311383-007 | Zinc     | EG005T | 5   | < 200 mg/kg | 331 mg/kg |





**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID            |                      | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4 | VAL01-5 |    |
|----------------------------------------------------|--------------|------|-------|----------------------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|---------|---------|----|
| Sampling date/time                                 |              |      |       | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |         |         |    |
|                                                    |              |      |       | EM2311383-001 MU     | EM2311383-002 MU     |           |           | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |         |         |    |
| Compound                                           | Method       | LOR  | Unit  | Lower Limit          | Upper Limit          |           |           |                      |                      |                      |         |         |    |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| cis-1.2-Dichloroethene                             | EP074-UT     | 0.01 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Methylene chloride                                 | EP074-UT     | 0.4  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| trans-1.2-Dichloroethene                           | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075I: Organochlorine Pesticides                  |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----                 | 2600                 | <10       | --        | <10                  | --                   | <10                  | --      | <10     | -- |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----                 | 40000                | <50       |           | <50                  |                      | 110                  |         | <50     |    |
| EP080: BTEXN                                       |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----                 | 16                   | <0.2      | --        | <0.2                 | --                   | <0.2                 | --      | <0.2    | -- |
| Toluene                                            | EP080        | 0.5  | mg/kg | ----                 | 12800                | <0.5      | --        | <0.5                 | --                   | <0.5                 | --      | <0.5    | -- |







**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID            | Guideline   | Guideline        | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5 |
|----------------------------------------------------|--------------|------|-------|----------------------|-------------|------------------|----------------------|----------------------|----------------------|----------------------|---------|
| Sampling date/time                                 |              |      |       | 22-Jun-2023<br>15:00 |             |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |         |
| Compound                                           | Method       | LOR  | Unit  | Lower Limit          | Upper Limit | EM2311383-001 MU | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |         |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| 1.1-Dichloroethene                                 | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| cis-1.2-Dichloroethene                             | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Methylene chloride                                 | EP074-UT     | 0.4  | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| trans-1.2-Dichloroethene                           | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| EP075I: Organochlorine Pesticides                  |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----                 | ----        | ----             | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----                 | 650         | <10              | <10                  | <10                  | <10                  | <10                  |         |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----                 | 10000       | <50              | <50                  | 110                  | <50                  | <50                  |         |
| EP080: BTEXN                                       |              |      |       |                      |             |                  |                      |                      |                      |                      |         |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----                 | 4           | <0.2             | <0.2                 | <0.2                 | <0.2                 | <0.2                 |         |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C

Sub-Matrix: SOIL

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |
|--------------------------|--------|-----|-------|--------------------|----------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                          |        |     |       | Sampling date/time |                |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit |           |           | EM2311383-001 MU     | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |
| EP080: BTEXN - Continued |        |     |       |                    |                |           |           |                      |                      |                      |                      |                      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |







**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID            | Guideline   | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5 |
|----------------------------------------------------|--------------|------|-------|----------------------|-------------|-----------|----------------------|----------------------|----------------------|----------------------|---------|
|                                                    |              |      |       | 22-Jun-2023<br>15:00 |             |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |         |
|                                                    |              |      |       | EM2311383-001 MU     |             |           | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |         |
| Compound                                           | Method       | LOR  | Unit  | Lower Limit          | Upper Limit |           |                      |                      |                      |                      |         |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| 1.1-Dichloroethene                                 | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| cis-1.2-Dichloroethene                             | EP074-UT     | 0.01 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Methylene chloride                                 | EP074-UT     | 0.4  | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| trans-1.2-Dichloroethene                           | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075I: Organochlorine Pesticides                  |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----                 | ----        | ----      | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----                 | 325         | <10       | <10                  | <10                  | <10                  | <10                  |         |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----                 | 5000        | <50       | <50                  | 110                  | <50                  | <50                  |         |
| EP080: BTEXN                                       |              |      |       |                      |             |           |                      |                      |                      |                      |         |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----                 | 4           | <0.2      | <0.2                 | <0.2                 | <0.2                 | <0.2                 |         |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste

Sub-Matrix: SOIL

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |             | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |
|--------------------------|--------|-----|-------|--------------------|-------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                          |        |     |       | Sampling date/time |             |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |
| Compound                 | Method | LOR | Unit  | Lower Limit        | Upper Limit |           |           | EM2311383-001 MU     | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |
| EP080: BTEXN - Continued |        |     |       |                    |             |           |           |                      |                      |                      |                      |                      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200        | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200        | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400        | <0.5 --   | <0.5 --   | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |

**Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit**

| Sub-Matrix: SOIL                             |  |  |  | Sample ID          |  | Guideline   |  | Guideline   |  | VAL01-1           |  | VAL01-2           |  | VAL01-3           |  | VAL01-4           |  | VAL01-5           |  |
|----------------------------------------------|--|--|--|--------------------|--|-------------|--|-------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|
|                                              |  |  |  | Sampling date/time |  | Lower Limit |  | Upper Limit |  | 22-Jun-2023 15:00 |  | 22-Jun-2023 15:00 |  | 22-Jun-2023 15:00 |  | 22-Jun-2023 15:00 |  | 22-Jun-2023 15:00 |  |
| Compound                                     |  |  |  | Method             |  | LOR         |  | Unit        |  | EM2311383-001 MU  |  | EM2311383-002 MU  |  | EM2311383-003 MU  |  | EM2311383-004 MU  |  | EM2311383-005 MU  |  |
| EA001: pH in soil using 0.01M CaCl extract   |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| pH (CaCl2)                                   |  |  |  | EA001              |  | 0.1         |  | pH Unit     |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EG005(ED093)T: Total Metals by ICP-AES       |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Arsenic                                      |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Cadmium                                      |  |  |  | EG005T             |  | 1           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Copper                                       |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Lead                                         |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Molybdenum                                   |  |  |  | EG005T             |  | 2           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Nickel                                       |  |  |  | EG005T             |  | 2           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Selenium                                     |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Silver                                       |  |  |  | EG005T             |  | 2           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Tin                                          |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Zinc                                         |  |  |  | EG005T             |  | 5           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EG035T: Total Recoverable Mercury by FIMS    |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Mercury                                      |  |  |  | EG035T             |  | 0.1         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EG048: Hexavalent Chromium (Alkaline Digest) |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Hexavalent Chromium                          |  |  |  | EG048G             |  | 0.5         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EK026SF: Total CN by Segmented Flow Analyser |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Total Cyanide                                |  |  |  | EK026SF            |  | 1           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EK040T: Fluoride Total                       |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Fluoride                                     |  |  |  | EK040T             |  | 40          |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP066: Polychlorinated Biphenyls (PCB)       |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Total Polychlorinated biphenyls              |  |  |  | EP066-EM           |  | 0.1         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Benzene                                      |  |  |  | EP074-UT           |  | 0.2         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Sum of monocyclic aromatic hydrocarbons      |  |  |  | EP074-UT-SUM       |  | 0.2         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP074I: Volatile Halogenated Compounds       |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Sum of volatile chlorinated hydrocarbons     |  |  |  | EP074-UT-SUM       |  | 0.01        |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP075A: Phenolic Compounds (Halogenated)     |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Sum of Phenols (halogenated)                 |  |  |  | EP075-EM-SUM       |  | 0.03        |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP075A: Phenolic Compounds (Non-halogenated) |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Sum of Phenols (non-halogenated)             |  |  |  | EP075-EM-SUM       |  | 1           |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| EP075B: Polynuclear Aromatic Hydrocarbons    |  |  |  |                    |  |             |  |             |  |                   |  |                   |  |                   |  |                   |  |                   |  |
| Benzo(a)pyrene                               |  |  |  | EP075-EM           |  | 0.5         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |
| Sum of polycyclic aromatic hydrocarbons      |  |  |  | EP075-EM-SUM       |  | 0.5         |  | mg/kg       |  | ----              |  | ----              |  | ----              |  | ----              |  | ----              |  |



Fill material contamination total concentration Upper Limit

Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit

| Sub-Matrix: SOIL                        |              |      |       | Sample ID          |                | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |
|-----------------------------------------|--------------|------|-------|--------------------|----------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                         |              |      |       | Sampling date/time |                |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |
| Compound                                | Method       | LOR  | Unit  | Lower<br>Limit     | Upper<br>Limit |           |           | EM2311383-001 MU     | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |
| EP075I: Organochlorine Pesticides       |              |      |       |                    |                |           |           |                      |                      |                      |                      |                      |
| Sum of organochlorine pesticides        | EP075-EM-SUM | 0.03 | mg/kg | ----               | ----           | ----      | ----      | ----                 | ----                 | ----                 |                      |                      |
| EP080/071: Total Petroleum Hydrocarbons |              |      |       |                    |                |           |           |                      |                      |                      |                      |                      |
| C10 - C36 Fraction (sum)                | EP071-EM     | 50   | mg/kg | ----               | ----           | ----      | ----      | ----                 | ----                 | ----                 |                      |                      |
| C6 - C9 Fraction                        | EP074-UT     | 10   | mg/kg | ----               | ----           | ----      | ----      | ----                 | ----                 | ----                 |                      |                      |
| C6 - C9 Fraction                        | EP080        | 10   | mg/kg | ----               | 100            | <10 --    | <10 --    | <10 --               | <10 --               | <10 --               |                      |                      |
| C10 - C36 Fraction (sum)                | EP071        | 50   | mg/kg | ----               | 1000           | <50       | <50       | 110                  | <50                  | <50                  |                      |                      |
| EP080: BTEXN                            |              |      |       |                    |                |           |           |                      |                      |                      |                      |                      |
| Benzene                                 | EP080        | 0.2  | mg/kg | ----               | 1              | <0.2 --   | <0.2 --   | <0.2 --              | <0.2 --              | <0.2 --              |                      |                      |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|----------------------------------------------|----------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                              |          |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                     | Method   | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----               | 2000      | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----                 |                  |
| Barium                                       | EG005T   | 10   | mg/kg | ----               | 25000     | ----      | ----                 | 80 ± 8               | ----                 | ----                 |                  |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----               | 400       | ----      | ----                 | 2 ± 0.2              | ----                 | ----                 |                  |
| Boron                                        | EG005T   | 50   | mg/kg | ----               | 60000     | ----      | ----                 | <50 --               | ----                 | ----                 |                  |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----               | 400       | ----      | <1 --                | <1 --                | ----                 | ----                 |                  |
| Copper                                       | EG005T   | 5    | mg/kg | ----               | 20000     | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----                 |                  |
| Lead                                         | EG005T   | 5    | mg/kg | ----               | 6000      | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----                 |                  |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----               | 4000      | ----      | <2 --                | ----                 | ----                 | ----                 |                  |
| Nickel                                       | EG005T   | 2    | mg/kg | ----               | 12000     | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----                 |                  |
| Selenium                                     | EG005T   | 5    | mg/kg | ----               | 40000     | ----      | <5 --                | <5 --                | ----                 | ----                 |                  |
| Silver                                       | EG005T   | 2    | mg/kg | ----               | 720       | ----      | <2 --                | ----                 | ----                 | ----                 |                  |
| Zinc                                         | EG005T   | 5    | mg/kg | ----               | 140000    | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----                 |                  |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----               | 300       | ----      | <0.1 --              | <0.1 --              | ----                 | ----                 |                  |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----               | 2000      | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----               | 10000     | ----      | <1 --                | ----                 | ----                 | ----                 |                  |
| EK040T: Fluoride Total                       |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----               | 40000     | ----      | 180 ± 40             | ----                 | ----                 | ----                 |                  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----               | 16        | ----      | <0.2 --              | ----                 | ----                 | ----                 |                  |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----               | 12800     | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----               | 4800      | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----               | 480       | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----               | 9600      | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                    |           |           |                      |                      |                      |                      |                  |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----               | 480       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----               | 64        | ----      | <0.4 --              | ----                 | ----                 | ----                 |                  |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----               | 960       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----               | 960       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Chloroform                                   | EP074-UT | 0.02 | mg/kg | ----               | 960       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1,1,1-Trichloroethane                        | EP074-UT | 0.01 | mg/kg | ----               | 4800      | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |

Sub-Matrix: **SOIL**

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline      | Guideline        | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|----------------------------------------------------|--------------|------|-------|--------------------|----------------|------------------|----------------------|----------------------|----------------------|----------------------|------|
|                                                    |              |      |       | Sampling date/time |                |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-006 MU | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |                      |      |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 48             | ----             | <0.01                | --                   | ----                 | ----                 | ---- |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 48             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 80             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 190            | ----             | <0.04                | --                   | ----                 | ----                 | ---- |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 800            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 1600           | ----             | <0.01                | --                   | ----                 | ----                 | ---- |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 210            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 11             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 4800           | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 640            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 24000          | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 4800           | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 3200           | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 64000          | ----             | <0.05                | --                   | ----                 | ----                 | ---- |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 320            | ----             | <0.05                | --                   | ----                 | ----                 | ---- |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 2200           | ----             | <1                   | --                   | ----                 | ----                 | ---- |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 160            | ----             | <0.5                 | --                   | ----                 | ----                 | ---- |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 400            | ----             | <0.5                 | --                   | ----                 | ----                 | ---- |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 4.8            | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 16             | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 2600           | <10              | --                   | ----                 | ----                 | <10                  | --   |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 2600           | ----             | <10                  | --                   | ----                 | ----                 | ---- |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 40000          | <50              | ----                 | ----                 | ----                 | <50                  | ---- |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 40000          | ----             | <50                  | --                   | ----                 | ----                 | ---- |
| EP080: BTEXN                                       |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 16             | <0.2             | --                   | ----                 | ----                 | <0.2                 | --   |
| Toluene                                            | EP080        | 0.5  | mg/kg | ----               | 12800          | <0.5             | --                   | ----                 | ----                 | <0.5                 | --   |
| Ethylbenzene                                       | EP080        | 0.5  | mg/kg | ----               | 4800           | <0.5             | --                   | ----                 | ----                 | <0.5                 | --   |





Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B

Sub-Matrix: SOIL

|                          |        |     |       | Sample ID          | Guideline      | Guideline      | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|--------------------------|--------|-----|-------|--------------------|----------------|----------------|----------------------|----------------------|----------------------|----------------------|------|
|                          |        |     |       | Sampling date/time |                |                | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
|                          |        |     |       |                    |                |                | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |
| Compound                 | Method | LOR | Unit  |                    | Lower<br>Limit | Upper<br>Limit |                      |                      |                      |                      |      |
| EP080: BTEXN - Continued |        |     |       |                    |                |                |                      |                      |                      |                      |      |
| Total Xylenes            | EP080  | 0.5 | mg/kg |                    | ----           | 9600           | <0.5 --              | ----                 | ----                 | <0.5 --              | ---- |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID          | Guideline   | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|----------------------------------------------|----------|------|-------|--------------------|-------------|-----------|----------------------|----------------------|----------------------|----------------------|------|
|                                              |          |      |       | Sampling date/time |             |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
|                                              |          |      |       |                    |             |           | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |
| Compound                                     | Method   | LOR  | Unit  | Lower Limit        | Upper Limit |           |                      |                      |                      |                      |      |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----               | 500         | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----                 |      |
| Barium                                       | EG005T   | 10   | mg/kg | ----               | 6250        | ----      | ----                 | 80 ± 8               | ----                 | ----                 |      |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----               | 100         | ----      | ----                 | 2 ± 0.2              | ----                 | ----                 |      |
| Boron                                        | EG005T   | 50   | mg/kg | ----               | 15000       | ----      | ----                 | <50 --               | ----                 | ----                 |      |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----               | 100         | ----      | <1 --                | <1 --                | ----                 | ----                 |      |
| Copper                                       | EG005T   | 5    | mg/kg | ----               | 5000        | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----                 |      |
| Lead                                         | EG005T   | 5    | mg/kg | ----               | 1500        | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----                 |      |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----               | 1000        | ----      | <2 --                | ----                 | ----                 | ----                 |      |
| Nickel                                       | EG005T   | 2    | mg/kg | ----               | 3000        | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----                 |      |
| Selenium                                     | EG005T   | 5    | mg/kg | ----               | 10000       | ----      | <5 --                | <5 --                | ----                 | ----                 |      |
| Silver                                       | EG005T   | 2    | mg/kg | ----               | 180         | ----      | <2 --                | ----                 | ----                 | ----                 |      |
| Zinc                                         | EG005T   | 5    | mg/kg | ----               | 35000       | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----                 |      |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----               | 75          | ----      | <0.1 --              | <0.1 --              | ----                 | ----                 |      |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----               | 500         | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----               | 2500        | ----      | <1 --                | ----                 | ----                 | ----                 |      |
| EK040T: Fluoride Total                       |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----               | 10000       | ----      | 180 ± 40             | ----                 | ----                 | ----                 |      |
| EP066: Polychlorinated Biphenyls (PCB)       |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Total Polychlorinated biphenyls              | EP066-EM | 0.1  | mg/kg | ----               | 50          | ----      | <0.1 --              | ----                 | ----                 | ----                 |      |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----               | 4           | ----      | <0.2 --              | ----                 | ----                 | ----                 |      |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----               | 3200        | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----               | 1200        | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----               | 120         | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----               | 2400        | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                    |             |           |                      |                      |                      |                      |      |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----               | 120         | ----      | <0.01 --             | ----                 | ----                 | ----                 |      |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----               | 16          | ----      | <0.4 --              | ----                 | ----                 | ----                 |      |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----               | 240         | ----      | <0.02 --             | ----                 | ----                 | ----                 |      |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----               | 240         | ----      | <0.01 --             | ----                 | ----                 | ----                 |      |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|----------------------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                                    |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----               | 240       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1-Trichloroethane                              | EP074-UT     | 0.01 | mg/kg | ----               | 1200      | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 12        | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 12        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 20        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 48        | ----      | <0.04 --             | ----                 | ----                 | ----                 |                  |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 200       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 400       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 52        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 2.8       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 1200      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 160       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 6000      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 1200      | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 800       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 16000     | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 80        | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 560       | ----      | <1 --                | ----                 | ----                 | ----                 |                  |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 40        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 100       | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 1.2       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 4         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 650       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 650       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 10000     | <50       | ----                 | ----                 | <50                  | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 10000     | ----      | <50 --               | ----                 | ----                 | ----                 |                  |
| EP080: BTEXN                                       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 4         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C

Sub-Matrix: SOIL

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|--------------------------|--------|-----|-------|--------------------|----------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------|
|                          |        |     |       | Sampling date/time |                |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit |           |           | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |
| EP080: BTEXN - Continued |        |     |       |                    |                |           |           |                      |                      |                      |                      |      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --   | ----      | ----                 | <0.5 --              | ----                 |                      |      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --   | ----      | ----                 | <0.5 --              | ----                 |                      |      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --   | ----      | ----                 | <0.5 --              | ----                 |                      |      |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID            | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01             | ----             |
|----------------------------------------------|----------|------|-------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|------------------|------------------|
| Sampling date/time                           |          |      |       | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |                  |
| Compound                                     | Method   | LOR  | Unit  | Lower<br>Limit       |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU | EM2311383-017 MU |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----                 | 500       | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----             |                  |
| Barium                                       | EG005T   | 10   | mg/kg | ----                 | 6250      | ----      | ----                 | 80 ± 8               | ----                 | ----             |                  |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | ----                 | 2 ± 0.2              | ----                 | ----             |                  |
| Boron                                        | EG005T   | 50   | mg/kg | ----                 | 15000     | ----      | ----                 | <50 --               | ----                 | ----             |                  |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | <1 --                | <1 --                | ----                 | ----             |                  |
| Copper                                       | EG005T   | 5    | mg/kg | ----                 | 5000      | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----             |                  |
| Lead                                         | EG005T   | 5    | mg/kg | ----                 | 1500      | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----             |                  |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----                 | 1000      | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Nickel                                       | EG005T   | 2    | mg/kg | ----                 | 3000      | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----             |                  |
| Selenium                                     | EG005T   | 5    | mg/kg | ----                 | 10000     | ----      | <5 --                | <5 --                | ----                 | ----             |                  |
| Silver                                       | EG005T   | 2    | mg/kg | ----                 | 180       | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Zinc                                         | EG005T   | 5    | mg/kg | ----                 | 35000     | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----             |                  |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----                 | 75        | ----      | <0.1 --              | <0.1 --              | ----                 | ----             |                  |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----                 | 500       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----                 | 2500      | ----      | <1 --                | ----                 | ----                 | ----             |                  |
| EK040T: Fluoride Total                       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----                 | 10000     | ----      | 180 ± 40             | ----                 | ----                 | ----             |                  |
| EP066: Polychlorinated Biphenyls (PCB)       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Polychlorinated biphenyls              | EP066-EM | 0.1  | mg/kg | ----                 | 2         | ----      | <0.1 --              | ----                 | ----                 | ----             |                  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----                 | 4         | ----      | <0.2 --              | ----                 | ----                 | ----             |                  |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 3200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----                 | 1200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 120       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----                 | 2400      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----                 | 120       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----                 | 16        | ----      | <0.4 --              | ----                 | ----                 | ----             |                  |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----                 | 240       | ----      | <0.02 --             | ----                 | ----                 | ----             |                  |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----                 | 240       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|----------------------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                                    |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----               | 240       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1-Trichloroethane                              | EP074-UT     | 0.01 | mg/kg | ----               | 1200      | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 12        | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 12        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 20        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 48        | ----      | <0.04 --             | ----                 | ----                 | ----                 |                  |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 200       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 400       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 52        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 2.8       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 1200      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 160       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 6000      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 1200      | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 800       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 16000     | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 80        | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 560       | ----      | <1 --                | ----                 | ----                 | ----                 |                  |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 20        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 50        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 1.2       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 4         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 325       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 325       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 5000      | <50       | ----                 | ----                 | <50                  | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 5000      | ----      | <50 --               | ----                 | ----                 | ----                 |                  |
| EP080: BTEXN                                       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 4         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline        | Guideline        | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|--------------------------|--------|-----|-------|--------------------|----------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|------|
|                          |        |     |       | Sampling date/time |                |                  |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-006 MU | EM2311383-007 MU | EM2311383-012 MU     | EM2311383-017 MU     |                      |                      |      |
| EP080: BTEXN - Continued |        |     |       |                    |                |                  |                  |                      |                      |                      |                      |      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |





**Fill material contamination total concentration Upper Limit**

**Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |              |      |         | Sample ID          |             | Guideline | Guideline  | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |  |  |
|----------------------------------------------|--------------|------|---------|--------------------|-------------|-----------|------------|----------------------|----------------------|----------------------|----------------------|------|--|--|
|                                              |              |      |         | Sampling date/time |             |           |            | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |  |  |
|                                              |              |      |         |                    |             |           |            | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |  |  |
| Compound                                     | Method       | LOR  | Unit    | Lower Limit        | Upper Limit |           |            |                      |                      |                      |                      |      |  |  |
| EA001: pH in soil using 0.01M CaCl extract   |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| pH (CaCl2)                                   | EA001        | 0.1  | pH Unit | 4                  | 10          | ----      | 6.8 ± 0.10 | ----                 | ----                 | ----                 | ----                 |      |  |  |
| EG005(ED093)T: Total Metals by ICP-AES       |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Arsenic                                      | EG005T       | 5    | mg/kg   | ----               | 20          | ----      | 6 ± 2      | 9 ± 2                | ----                 | ----                 |                      |      |  |  |
| Cadmium                                      | EG005T       | 1    | mg/kg   | ----               | 3           | ----      | <1 --      | <1 --                | ----                 | ----                 |                      |      |  |  |
| Copper                                       | EG005T       | 5    | mg/kg   | ----               | 100         | ----      | 13 ± 2     | 16 ± 2               | ----                 | ----                 |                      |      |  |  |
| Lead                                         | EG005T       | 5    | mg/kg   | ----               | 300         | ----      | 33 ± 4     | 15 ± 2               | ----                 | ----                 |                      |      |  |  |
| Molybdenum                                   | EG005T       | 2    | mg/kg   | ----               | 40          | ----      | <2 --      | ----                 | ----                 | ----                 |                      |      |  |  |
| Nickel                                       | EG005T       | 2    | mg/kg   | ----               | 60          | ----      | 19 ± 2     | 37 ± 4               | ----                 | ----                 |                      |      |  |  |
| Selenium                                     | EG005T       | 5    | mg/kg   | ----               | 10          | ----      | <5 --      | <5 --                | ----                 | ----                 |                      |      |  |  |
| Silver                                       | EG005T       | 2    | mg/kg   | ----               | 10          | ----      | <2 --      | ----                 | ----                 | ----                 |                      |      |  |  |
| Tin                                          | EG005T       | 5    | mg/kg   | ----               | 50          | ----      | <5 --      | ----                 | ----                 | ----                 |                      |      |  |  |
| Zinc                                         | EG005T       | 5    | mg/kg   | ----               | 200         | ----      | 331 ± 34   | 48 ± 6               | ----                 | ----                 |                      |      |  |  |
| EG035T: Total Recoverable Mercury by FIMS    |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Mercury                                      | EG035T       | 0.1  | mg/kg   | ----               | 1           | ----      | <0.1 --    | <0.1 --              | ----                 | ----                 |                      |      |  |  |
| EG048: Hexavalent Chromium (Alkaline Digest) |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Hexavalent Chromium                          | EG048G       | 0.5  | mg/kg   | ----               | 1           | ----      | <0.5 --    | ----                 | ----                 | ----                 |                      |      |  |  |
| EK026SF: Total CN by Segmented Flow Analyser |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Total Cyanide                                | EK026SF      | 1    | mg/kg   | ----               | 50          | ----      | <1 --      | ----                 | ----                 | ----                 |                      |      |  |  |
| EK040T: Fluoride Total                       |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Fluoride                                     | EK040T       | 40   | mg/kg   | ----               | 450         | ----      | 180 ± 40   | ----                 | ----                 | ----                 |                      |      |  |  |
| EP066: Polychlorinated Biphenyls (PCB)       |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Total Polychlorinated biphenyls              | EP066-EM     | 0.1  | mg/kg   | ----               | 2           | ----      | <0.1 --    | ----                 | ----                 | ----                 |                      |      |  |  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Benzene                                      | EP074-UT     | 0.2  | mg/kg   | ----               | 1           | ----      | <0.2 --    | ----                 | ----                 | ----                 |                      |      |  |  |
| Sum of monocyclic aromatic hydrocarbons      | EP074-UT-SUM | 0.2  | mg/kg   | ----               | 7           | ----      | <0.2 --    | ----                 | ----                 | ----                 |                      |      |  |  |
| EP074I: Volatile Halogenated Compounds       |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Sum of volatile chlorinated hydrocarbons     | EP074-UT-SUM | 0.01 | mg/kg   | ----               | 1           | ----      | <0.01 --   | ----                 | ----                 | ----                 |                      |      |  |  |
| EP075A: Phenolic Compounds (Halogenated)     |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Sum of Phenols (halogenated)                 | EP075-EM-SUM | 0.03 | mg/kg   | ----               | 1           | ----      | <0.03 --   | ----                 | ----                 | ----                 |                      |      |  |  |
| EP075A: Phenolic Compounds (Non-halogenated) |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Sum of Phenols (non-halogenated)             | EP075-EM-SUM | 1    | mg/kg   | ----               | 60          | ----      | <1 --      | ----                 | ----                 | ----                 |                      |      |  |  |
| EP075B: Polynuclear Aromatic Hydrocarbons    |              |      |         |                    |             |           |            |                      |                      |                      |                      |      |  |  |
| Benzo(a)pyrene                               | EP075-EM     | 0.5  | mg/kg   | ----               | 1           | ----      | <0.5 --    | ----                 | ----                 | ----                 |                      |      |  |  |
| Sum of polycyclic aromatic hydrocarbons      | EP075-EM-SUM | 0.5  | mg/kg   | ----               | 20          | ----      | <0.5 --    | ----                 | ----                 | ----                 |                      |      |  |  |



Fill material contamination total concentration Upper Limit

Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit

| Sub-Matrix: SOIL                        |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|-----------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                         |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EP075I: Organochlorine Pesticides       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Sum of organochlorine pesticides        | EP075-EM-SUM | 0.03 | mg/kg | ----               | 1         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| EP080/071: Total Petroleum Hydrocarbons |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| C6 - C9 Fraction                        | EP080        | 10   | mg/kg | ----               | 100       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |
| C6 - C9 Fraction                        | EP074-UT     | 10   | mg/kg | ----               | 100       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |
| C10 - C36 Fraction (sum)                | EP071        | 50   | mg/kg | ----               | 1000      | <50       | ----                 | ----                 | <50                  | ----                 |                  |
| C10 - C36 Fraction (sum)                | EP071-EM     | 50   | mg/kg | ----               | 1000      | ----      | <50 --               | ----                 | ----                 | ----                 |                  |
| EP080: BTEXN                            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                 | EP080        | 0.2  | mg/kg | ----               | 1         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |



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

|              |                            |                         |                                    |
|--------------|----------------------------|-------------------------|------------------------------------|
| Work Order   | : EM2311383                | Page                    | : 1 of 10                          |
| Client       | : HELIA EHS PTY LTD        | Laboratory              | : Environmental Division Melbourne |
| Contact      | : ELLA DENTON              | Telephone               | : +61-3-8549 9600                  |
| Project      | : 20220134                 | Date Samples Received   | : 22-Jun-2023                      |
| Site         | : Hopetoun Park            | Issue Date              | : 03-Jul-2023                      |
| Sampler      | : Ella Denton/ Garry Masur | No. of samples received | : 18                               |
| Order number | : 20220134                 | No. of samples analysed | : 10                               |

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

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



### Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

| 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 | EM2311363--010       | Anonymous        | <b>C29 - C36 Fraction</b> | ----       | 127 % | 78.0-120% | <b>Recovery greater than upper data quality objective</b> |

### Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

| Quality Control Sample Type        | Count |         | Rate (%) |          | Quality Control Specification  |
|------------------------------------|-------|---------|----------|----------|--------------------------------|
| Method                             | QC    | Regular | Actual   | Expected |                                |
|                                    | 1     |         |          |          |                                |
| <b>Laboratory Duplicates (DUP)</b> |       |         |          |          |                                |
| TRH - Semivolatile Fraction        | 1     | 16      | 6.25     | 10.00    | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

| Quality Control Sample Type | Count |         | Rate (%) |          | Quality Control Specification  |
|-----------------------------|-------|---------|----------|----------|--------------------------------|
| Method                      | QC    | Regular | Actual   | Expected |                                |
|                             | 0     |         |          |          |                                |
| <b>Matrix Spikes (MS)</b>   |       |         |          |          |                                |
| TRH - Semivolatile Fraction | 0     | 8       | 0.00     | 5.00     | NEPM 2013 B3 & ALS QC Standard |

## Analysis Holding Time Compliance

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

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

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

Holding times for **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**

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 |
| <b>EA001: pH in soil using 0.01M CaCl extract</b>                                                  |                                                     |                          |                    |            |               |                  |            |
| <b>Soil Glass Jar - Unpreserved (EA001)</b><br>SP01-1                                              | 22-Jun-2023                                         | 28-Jun-2023              | 29-Jun-2023        | ✔          | 28-Jun-2023   | 28-Jun-2023      | ✔          |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>                                                 |                                                     |                          |                    |            |               |                  |            |
| <b>Soil Glass Jar - Unpreserved (EA055)</b><br>VAL01-1,<br>VAL01-3,<br>VAL01-5,<br>SP01-1,<br>FD01 | VAL01-2,<br>VAL01-4,<br>VAL01-6,<br>SP01-6,<br>FD01 | 22-Jun-2023              | ----               | ----       | 26-Jun-2023   | 06-Jul-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>SP01-1, SP01-6 | 22-Jun-2023 | 27-Jun-2023              | 19-Dec-2023        | ✓          | 27-Jun-2023   | 19-Dec-2023      | ✓          |
| EG035T: Total Recoverable Mercury by FIMS               |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG035T)<br>SP01-1, SP01-6 | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 28-Jun-2023   | 20-Jul-2023      | ✓          |
| EG048: Hexavalent Chromium (Alkaline Digest)            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG048G)<br>SP01-1         | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 28-Jun-2023   | 04-Jul-2023      | ✓          |
| EK026SF: Total CN by Segmented Flow Analyser            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK026SF)<br>SP01-1        | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 29-Jun-2023   | 11-Jul-2023      | ✓          |
| EK040T: Fluoride Total                                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK040T)<br>SP01-1         | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 29-Jun-2023   | 20-Jul-2023      | ✓          |
| EP066: Polychlorinated Biphenyls (PCB)                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP066-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP074A: Monocyclic Aromatic Hydrocarbons                |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP074H: Naphthalene                                     |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP074I: Volatile Halogenated Compounds                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP075A: Phenolic Compounds (Halogenated)                |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075A: Phenolic Compounds (Non-halogenated)            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075B: Polynuclear Aromatic Hydrocarbons               |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075I: Organochlorine Pesticides                       |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-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 (EP080)<br>VAL01-1, VAL01-3, VAL01-5, SP01-1, VAL01-2, VAL01-4, VAL01-6, FD01 |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071-EM)<br>SP01-1                                                          |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Aug-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 28-Jun-2023   | 06-Aug-2023      | ✔          |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions                                            |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP080)<br>VAL01-1, VAL01-3, VAL01-5, SP01-1, VAL01-2, VAL01-4, VAL01-6, FD01 |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071-EM)<br>SP01-1                                                          |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Aug-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 28-Jun-2023   | 06-Aug-2023      | ✔          |
| EP080: BTEXN                                                                                               |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP080)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |

Matrix: **WATER**

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          |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>RB01 | 22-Jun-2023 | 23-Jun-2023              | 29-Jun-2023        | ✓          | 26-Jun-2023   | 02-Aug-2023      | ✓          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01   | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✓          | 24-Jun-2023   | 06-Jul-2023      | ✓          |



Matrix: WATER

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 Recoverable Hydrocarbons - NEPM 2013 Fractions |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>RB01                | 22-Jun-2023 | 23-Jun-2023              | 29-Jun-2023        | ✔          | 26-Jun-2023   | 02-Aug-2023      | ✔          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01                  | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✔          | 24-Jun-2023   | 06-Jul-2023      | ✔          |
| EP080: BTEXN                                                    |             |                          |                    |            |               |                  |            |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01                  | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✔          | 24-Jun-2023   | 06-Jul-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)                             |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Moisture Content                                        | EA055    | 4     | 33      | 12.12    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001    | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 10.00    | ✗          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 2     | 19      | 10.53    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 2     | 11      | 18.18    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS)                        |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001    | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB)                                      |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |





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 |                                |
| Method Blanks (MB) - Continued                          |          |       |         |          |          |            |                                |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS)                                      |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

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)      |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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) |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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)               |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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)               |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 0     | 8       | 0.00     | 5.00     | ✖          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX               | EP080  | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |



## Brief Method Summaries

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

| Analytical Methods                                      | Method   | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pH in soil using a 0.01M CaCl <sub>2</sub> extract      | EA001    | SOIL   | In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl <sub>2</sub> and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Moisture Content                                        | EA055    | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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)                                                                                                                                                                                                                                                                                                                                                                                  |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | SOIL   | In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | SOIL   | In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3). |
| Total Fluoride                                          | EK040T   | SOIL   | (In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TRH - Semivolatile Fraction                             | EP071-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| Analytical Methods                                    | Method       | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile Organic Compounds - Ultra-trace              | EP074-UT     | SOIL   | In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).                                                                                                                                  |
| Volatile Organic Compounds - Ultra-trace - Summations | EP074-UT-SUM | SOIL   | Summation of MAHs and VHCs                                                                                                                                                                                                                                                                                                                                                                               |
| Semivolatile Organic Compounds - Waste Classification | EP075-EM     | 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).                                                                                                                                                                          |
| SVOC - Waste Classification (Sums)                    | EP075-EM-SUM | SOIL   | Summations for EP075 (EM variation)                                                                                                                                                                                                                                                                                                                                                                      |
| 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.                                                                                                                                                                      |
| TRH - Semivolatile Fraction                           | EP071        | WATER  | In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)                                                                                                                       |
| TRH Volatiles/BTEX                                    | EP080        | WATER  | In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3) |

| Preparation Methods                                        | Method    | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NaOH leach for CN in Soils                                 | CN-PR     | SOIL   | In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.                                                                                                                                                                                                                                                                                                                    |
| pH in soil using a 0.01M CaCl2 extract                     | EA001-PR  | SOIL   | In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                 |
| Alkaline digestion for Hexavalent Chromium                 | EG048PR   | SOIL   | In house: Referenced to USEPA SW846, Method 3060A.                                                                                                                                                                                                                                                                                                                                                   |
| Total Fluoride                                             | EK040T-PR | SOIL   | In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.                                                                                                                                                                                                                                                                                                                        |
| Hot Block Digest for metals in soils sediments and sludges | EN69      | SOIL   | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3). |
| Methanolic Extraction of Soils for Purge and Trap          | ORG16     | SOIL   | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.                                                                                                                                                                                                                                                    |
| Methanolic Extraction of Soils - Ultra-trace.              | ORG16-UT  | SOIL   | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.                                                                                                                                                                                                                                                    |
| Tumbler Extraction of Solids                               | ORG17     | SOIL   | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.                                                                                                                                                       |
| Tumbler Extraction of Solids - VIC EPA Screen              | ORG17-EM  | 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.                                                                                                                                                       |

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Work Order : EM2311383  
Client : HELIA EHS PTY LTD  
Project : 20220134



| Preparation Methods                     | Method  | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|---------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Separatory Funnel Extraction of Liquids | ORG14   | WATER  | In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container. |
| Volatiles Water Preparation             | ORG16-W | WATER  | A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.                                                                                                                                                                                                                                                                                            |



## QUALITY CONTROL REPORT

|                         |                                             |                         |                                              |
|-------------------------|---------------------------------------------|-------------------------|----------------------------------------------|
| Work Order              | : EM2311383                                 | Page                    | : 1 of 18                                    |
| Client                  | : HELIA EHS PTY LTD                         | Laboratory              | : Environmental Division Melbourne           |
| Contact                 | : ELLA DENTON                               | Contact                 | : Celline Tamin                              |
| Address                 | : 423 CITY ROAD<br>SOUTH MELBOURNE VIC 3205 | Address                 | : 4 Westall Rd Springvale VIC Australia 3171 |
| Telephone               | : ----                                      | Telephone               | : +61-3-8549 9600                            |
| Project                 | : 20220134                                  | Date Samples Received   | : 22-Jun-2023                                |
| Order number            | : 20220134                                  | Date Analysis Commenced | : 23-Jun-2023                                |
| C-O-C number            | : ----                                      | Issue Date              | : 03-Jul-2023                                |
| Sampler                 | : Ella Denton/ Garry Masur                  |                         |                                              |
| Site                    | : Hopetoun Park                             |                         |                                              |
| Quote number            | : MEBQ/108/21 Primary Work                  |                         |                                              |
| No. of samples received | : 18                                        |                         |                                              |
| No. of samples analysed | : 10                                        |                         |                                              |



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                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |
| Sanjay Parekh   | LCMS Coordinator       | Melbourne Organics, Springvale, VIC   |



## 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: 5133302)</b> |           |                    |            |                                   |       |                 |                  |         |                    |
| EM2311363-010                                                   | 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 | 40              | 50               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 16              | 19               | 16.3    | No Limit           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 20              | 20               | 0.0     | 0% - 50%           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg | 84              | 89               | 6.7     | 0% - 20%           |
|                                                                 |           | EG005T: Silver     | 7440-22-4  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Arsenic    | 7440-38-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Copper     | 7440-50-8  | 5                                 | mg/kg | 19              | 21               | 12.1    | No Limit           |
|                                                                 |           | EG005T: Lead       | 7439-92-1  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Manganese  | 7439-96-5  | 5                                 | mg/kg | 344             | 361              | 4.8     | 0% - 20%           |
|                                                                 |           | EG005T: Selenium   | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Tin        | 7440-31-5  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Vanadium   | 7440-62-2  | 5                                 | mg/kg | 12              | 14               | 14.7    | No Limit           |
|                                                                 |           | EG005T: Zinc       | 7440-66-6  | 5                                 | mg/kg | 39              | 41               | 5.8     | No Limit           |
| EM2311403-001                                                   | Anonymous | EG005T: Boron      | 7440-42-8  | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
|                                                                 |           | 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 | 140             | 110              | 22.7    | 0% - 50%           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 91              | 90               | 1.1     | 0% - 20%           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 13              | 11               | 21.1    | No Limit           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | 2               | 2                | 0.0     | No Limit           |
|                                                                 |           | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg | 70              | 62               | 11.1    | 0% - 20%           |



| 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 (%) |
| <b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5133302) - continued</b> |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311403-001                                                               | Anonymous | EG005T: Silver                            | 7440-22-4  | 2                                 | mg/kg   | <2              | <2               | 0.0     | No Limit           |
|                                                                             |           | EG005T: Arsenic                           | 7440-38-2  | 5                                 | mg/kg   | 7               | 9                | 22.1    | No Limit           |
|                                                                             |           | EG005T: Copper                            | 7440-50-8  | 5                                 | mg/kg   | 52              | 67               | 24.7    | 0% - 50%           |
|                                                                             |           | EG005T: Lead                              | 7439-92-1  | 5                                 | mg/kg   | 37              | 31               | 17.2    | No Limit           |
|                                                                             |           | EG005T: Manganese                         | 7439-96-5  | 5                                 | mg/kg   | 2630            | 2530             | 3.8     | 0% - 20%           |
|                                                                             |           | EG005T: Selenium                          | 7782-49-2  | 5                                 | mg/kg   | <5              | <5               | 0.0     | No Limit           |
|                                                                             |           | EG005T: Tin                               | 7440-31-5  | 5                                 | mg/kg   | 8               | 9                | 0.0     | No Limit           |
|                                                                             |           | EG005T: Vanadium                          | 7440-62-2  | 5                                 | mg/kg   | 15              | 18               | 18.1    | No Limit           |
|                                                                             |           | EG005T: Zinc                              | 7440-66-6  | 5                                 | mg/kg   | 191             | 184              | 3.7     | 0% - 20%           |
|                                                                             |           | EG005T: Boron                             | 7440-42-8  | 50                                | mg/kg   | <50             | <50              | 0.0     | No Limit           |
| <b>EA001: pH in soil using 0.01M CaCl extract (QC Lot: 5138473)</b>         |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311316-001                                                               | Anonymous | EA001: pH (CaCl2)                         | ----       | 0.1                               | pH Unit | 4.7             | 4.6              | 2.6     | 0% - 20%           |
| EM2311353-010                                                               | Anonymous | EA001: pH (CaCl2)                         | ----       | 0.1                               | pH Unit | 7.5             | 7.6              | 0.0     | 0% - 20%           |
| <b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5134397)</b>        |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311047-029                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 28.4            | 27.4             | 3.7     | 0% - 20%           |
| EM2311363-005                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 22.4            | 23.9             | 6.2     | 0% - 20%           |
| <b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5134398)</b>        |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311383-004                                                               | VAL01-4   | EA055: Moisture Content                   | ----       | 0.1                               | %       | 5.0             | 5.0              | 0.0     | 0% - 20%           |
| EM2311455-012                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 25.2            | 25.6             | 1.4     | 0% - 20%           |
| <b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5133303)</b>          |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311363-010                                                               | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| EM2311403-001                                                               | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 5135815)</b>       |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311383-007                                                               | SP01-1    | EG048G: Hexavalent Chromium               | 18540-29-9 | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
| EM2311449-002                                                               | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
| <b>EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 5137264)</b>       |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311316-012                                                               | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 1                                 | mg/kg   | <1              | <1               | 0.0     | No Limit           |
| EM2311146-008                                                               | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 1                                 | mg/kg   | <1              | <1               | 0.0     | No Limit           |
| <b>EK040T: Fluoride Total (QC Lot: 5135812)</b>                             |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2310780-003                                                               | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg   | 140             | 120              | 15.0    | No Limit           |
| EM2311316-030                                                               | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg   | 150             | 180              | 16.0    | No Limit           |
| <b>EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5133593)</b>             |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2310780-003                                                               | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| EM2311353-001                                                               | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 5133585)</b>           |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311353-001                                                               | Anonymous | EP074-UT: Benzene                         | 71-43-2    | 0.2                               | mg/kg   | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                             |           | EP074-UT: Toluene                         | 108-88-3   | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                             |           | EP074-UT: Ethylbenzene                    | 100-41-4   | 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 (%) |
| EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 5133585) - continued |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: meta- & para-Xylene       | 108-38-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        |                                     | 106-42-3                     |                                   |       |                 |                  |          |                    |
|                                                                        |                        | EP074-UT: Styrene                   | 100-42-5                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
| EM2311455-001                                                          | Anonymous              | EP074-UT: ortho-Xylene              | 95-47-6                      | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Benzene                   | 71-43-2                      | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Toluene                   | 108-88-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Ethylbenzene              | 100-41-4                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: meta- & para-Xylene       | 108-38-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        |                                     | 106-42-3                     |                                   |       |                 |                  |          |                    |
|                                                                        |                        | EP074-UT: Styrene                   | 100-42-5                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        | EP074-UT: ortho-Xylene | 95-47-6                             | 0.5                          | mg/kg                             | <0.5  | <0.5            | 0.0              | No Limit |                    |
| EP074H: Naphthalene (QC Lot: 5133585)                                  |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: Naphthalene               | 91-20-3                      | 1                                 | mg/kg | <1              | <1               | 0.0      | No Limit           |
| EM2311455-001                                                          | Anonymous              | EP074-UT: Naphthalene               | 91-20-3                      | 1                                 | mg/kg | <1              | <1               | 0.0      | No Limit           |
| EP074I: Volatile Halogenated Compounds (QC Lot: 5133585)               |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: 1,1-Dichloroethene        | 75-35-4                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: cis-1,2-Dichloroethene    | 156-59-2                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1-Trichloroethane     | 71-55-6                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Carbon Tetrachloride      | 56-23-5                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 630-20-6                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2,4-Trichlorobenzene    | 120-82-1                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Vinyl chloride            | 75-01-4                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: trans-1,2-Dichloroethene  | 156-60-5                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Chloroform                | 67-66-3                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2-Dichloroethane        | 107-06-2                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Trichloroethene           | 79-01-6                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Tetrachloroethene         | 127-18-4                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 79-34-5                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Hexachlorobutadiene       | 87-68-3                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Chlorobenzene             | 108-90-7                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,4-Dichlorobenzene       | 106-46-7                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2-Dichlorobenzene       | 95-50-1                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Trichloroethane   | 79-00-5                      | 0.04                              | mg/kg | <0.04           | <0.04            | 0.0      | No Limit           |
|                                                                        |                        |                                     | EP074-UT: Methylene chloride | 75-09-2                           | 0.4   | mg/kg           | <0.4             | <0.4     | 0.0                |
| EM2311455-001                                                          | Anonymous              | EP074-UT: 1,1-Dichloroethene        | 75-35-4                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: cis-1,2-Dichloroethene    | 156-59-2                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1-Trichloroethane     | 71-55-6                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Carbon Tetrachloride      | 56-23-5                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 630-20-6                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2,4-Trichlorobenzene    | 120-82-1                     | 0.01                              | mg/kg | <0.01           | <0.01            | 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 (%) |
| EP074I: Volatile Halogenated Compounds (QC Lot: 5133585) - continued |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2311455-001                                                        | Anonymous | EP074-UT: Vinyl chloride                      | 75-01-4           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: trans-1,2-Dichloroethene            | 156-60-5          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Chloroform                          | 67-66-3           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,2-Dichloroethane                  | 107-06-2          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Trichloroethene                     | 79-01-6           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Tetrachloroethene                   | 127-18-4          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,1,2,2-Tetrachloroethane           | 79-34-5           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Hexachlorobutadiene                 | 87-68-3           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Chlorobenzene                       | 108-90-7          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,4-Dichlorobenzene                 | 106-46-7          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,2-Dichlorobenzene                 | 95-50-1           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,1,2-Trichloroethane               | 79-00-5           | 0.04                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Methylene chloride                  | 75-09-2           | 0.4                               | mg/kg | <0.4            | <0.4             | 0.0     | No Limit           |
| EP075A: Phenolic Compounds (Halogenated) (QC Lot: 5133589)           |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                        | Anonymous | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-90-2 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: Pentachlorophenol                   | 87-86-5           | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EM2311353-001                                                        | Anonymous | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-90-2 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: Pentachlorophenol                   | 87-86-5           | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 5133589)       |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                        | Anonymous | EP075-EM: Phenol                              | 108-95-2          | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2-Methylphenol                      | 95-48-7           | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 3- & 4-Methylphenol                 | 1319-77-3         | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2-Nitrophenol                       | 88-75-5           | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dimethylphenol                  | 105-67-9          | 1                                 | mg/kg | <1              | <1               | 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 (%) |
| EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 5133589) - continued |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                              | Anonymous | EP075-EM: 2,4-Dinitrophenol                 | 51-28-5              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 4-Nitrophenol                     | 100-02-7             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methyl-4,6-dinitrophenol        | 8071-51-0            | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dinoseb                           | 88-85-7              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol    | 131-89-5             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
| EM2311353-001                                                              | Anonymous | EP075-EM: Phenol                            | 108-95-2             | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methylphenol                    | 95-48-7              | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 3- & 4-Methylphenol               | 1319-77-3            | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Nitrophenol                     | 88-75-5              | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2,4-Dimethylphenol                | 105-67-9             | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2,4-Dinitrophenol                 | 51-28-5              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 4-Nitrophenol                     | 100-02-7             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methyl-4,6-dinitrophenol        | 8071-51-0            | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dinoseb                           | 88-85-7              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol    | 131-89-5             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5133589)                |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                              | Anonymous | EP075-EM: Naphthalene                       | 91-20-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthene                      | 83-32-9              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthylene                    | 208-96-8             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluorene                          | 86-73-7              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Phenanthrene                      | 85-01-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Anthracene                        | 120-12-7             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluoranthene                      | 206-44-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Pyrene                            | 129-00-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benz(a)anthracene                 | 56-55-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Chrysene                          | 218-01-9             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Indeno(1,2,3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dibenz(a,h)anthracene             | 53-70-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(g,h,i)perylene              | 191-24-2             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | <1.0            | <1.0             | 0.0     | No Limit           |
| EM2311353-001                                                              | Anonymous | EP075-EM: Naphthalene                       | 91-20-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthene                      | 83-32-9              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthylene                    | 208-96-8             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluorene                          | 86-73-7              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Phenanthrene                      | 85-01-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Anthracene                        | 120-12-7             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluoranthene                      | 206-44-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Pyrene                            | 129-00-0             | 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 (%) |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5133589) - continued |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                           | Anonymous | EP075-EM: Benz(a)anthracene                 | 56-55-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Chrysene                          | 218-01-9             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Indeno(1.2.3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dibenzo(a,h)anthracene            | 53-70-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(g,h,i)perylene              | 191-24-2             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | <1.0            | <1.0             | 0.0     | No Limit           |
| EP075I: Organochlorine Pesticides (QC Lot: 5133589)                     |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                           | Anonymous | EP075-EM: alpha-BHC                         | 319-84-6             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Hexachlorobenzene (HCB)           | 118-74-1             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: beta-BHC                          | 319-85-7             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: gamma-BHC                         | 58-89-9              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: delta-BHC                         | 319-86-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor                        | 76-44-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Aldrin                            | 309-00-2             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor epoxide                | 1024-57-3            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: cis-Chlordane                     | 5103-71-9            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: trans-Chlordane                   | 5103-74-2            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 1                      | 959-98-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dieldrin                          | 60-57-1              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin aldehyde                   | 7421-93-4            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin                            | 72-20-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 2                      | 33213-65-9           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan sulfate                | 1031-07-8            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Methoxychlor                      | 72-43-5              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDE                          | 72-55-9              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDD                          | 72-54-8              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDT                          | 50-29-3              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EM2311353-001                                                           | Anonymous | EP075-EM: alpha-BHC                         | 319-84-6             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Hexachlorobenzene (HCB)           | 118-74-1             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: beta-BHC                          | 319-85-7             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: gamma-BHC                         | 58-89-9              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: delta-BHC                         | 319-86-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor                        | 76-44-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Aldrin                            | 309-00-2             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor epoxide                | 1024-57-3            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: cis-Chlordane                     | 5103-71-9            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: trans-Chlordane                   | 5103-74-2            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 1                      | 959-98-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 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 (%) |
| EP075I: Organochlorine Pesticides (QC Lot: 5133589) - continued                   |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP075-EM: Dieldrin                          | 60-57-1     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endrin aldehyde                   | 7421-93-4   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endrin                            | 72-20-8     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endosulfan 2                      | 33213-65-9  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endosulfan sulfate                | 1031-07-8   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Methoxychlor                      | 72-43-5     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDE                          | 72-55-9     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDD                          | 72-54-8     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDT                          | 50-29-3     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133253)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                     | Anonymous | EP080: C6 - C9 Fraction                     | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311363-011                                                                     | Anonymous | EP080: C6 - C9 Fraction                     | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133585)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP074-UT: C6 - C9 Fraction                  | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311455-001                                                                     | Anonymous | EP074-UT: C6 - C9 Fraction                  | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133592)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                                     | Anonymous | EP071-EM: C15 - C28 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C29 - C36 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C10 - C14 Fraction                | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EM2311353-001                                                                     | Anonymous | EP071-EM: C15 - C28 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C29 - C36 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C10 - C14 Fraction                | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5134352)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311363-002                                                                     | Anonymous | EP071: C15 - C28 Fraction                   | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071: C29 - C36 Fraction                   | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071: C10 - C14 Fraction                   | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133253) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                     | Anonymous | EP080: C6 - C10 Fraction                    | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311363-011                                                                     | Anonymous | EP080: C6 - C10 Fraction                    | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133585) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP074-UT: C6 - C10 Fraction                 | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
|                                                                                   |           | EP074-UT: C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311455-001                                                                     | Anonymous | EP074-UT: C6 - C10 Fraction                 | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
|                                                                                   |           | EP074-UT: C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133592) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                                     | Anonymous | EP071-EM: >C16 - C34 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: >C34 - C40 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: >C10 - C16 Fraction               | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EM2311353-001                                                                     | Anonymous | EP071-EM: >C16 - C34 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 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 (%) |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133592) - continued |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                                 | Anonymous | EP071-EM: >C34 - C40 Fraction | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071-EM: >C10 - C16 Fraction | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5134352)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311363-002                                                                                 | Anonymous | EP071: >C16 - C34 Fraction    | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C34 - C40 Fraction    | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C10 - C16 Fraction    | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 5133253)                                                                |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                                 | Anonymous | EP080: Benzene                | 71-43-2    | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                                               |           | EP080: Toluene                | 108-88-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           | EP080: Ethylbenzene           | 100-41-4   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           | EP080: meta- & para-Xylene    | 108-38-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           |                               | 106-42-3   |                                   |       |                 |                  |         |                    |
|                                                                                               |           | EP080: ortho-Xylene           | 95-47-6    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
| EM2311363-011                                                                                 | Anonymous | EP080: Naphthalene            | 91-20-3    | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                                               |           | 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           |
| Sub-Matrix: WATER                                                                             |           |                               |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
| Laboratory sample ID                                                                          | Sample ID | Method: Compound              | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5131510)                                     |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP071: C15 - C28 Fraction     | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: C10 - C14 Fraction     | ----       | 50                                | µg/L  | <50             | <50              | 0.0     | No Limit           |
|                                                                                               |           | EP071: C29 - C36 Fraction     | ----       | 50                                | µg/L  | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5132259)                                     |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: C6 - C9 Fraction       | ----       | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EM2311416-003                                                                                 | Anonymous | EP080: C6 - C9 Fraction       | ----       | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5131510)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP071: >C10 - C16 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C16 - C34 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C34 - C40 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5132259)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: C6 - C10 Fraction      | C6_C10     | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EM2311416-003                                                                                 | Anonymous | EP080: C6 - C10 Fraction      | C6_C10     | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 5132259)                                                                |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: Benzene                | 71-43-2    | 1                                 | µg/L  | <1              | <1               | 0.0     | No Limit           |

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 Work Order : EM2311383  
 Client : HELIA EHS PTY LTD  
 Project : 20220134



| Sub-Matrix: <b>WATER</b>                          |           |                            |            | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|---------------------------------------------------|-----------|----------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                              | Sample ID | Method: Compound           | CAS Number | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EP080: BTEXN (QC Lot: 5132259) - continued</b> |           |                            |            |                                   |      |                 |                  |         |                    |
| EM2311383-018                                     | RB01      | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                   |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |
| EM2311416-003                                     | Anonymous | EP080: Benzene             | 71-43-2    | 1                                 | µg/L | <1              | <1               | 0.0     | No Limit           |
|                                                   |           | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                   |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |



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

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

Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                   |      |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5133302)       |            |      |         |                             |                                       |                           |                                   |      |
| EG005T: Arsenic                                               | 7440-38-2  | 5    | mg/kg   | <5                          | 123 mg/kg                             | 96.9                      | 70.0                              | 130  |
| EG005T: Barium                                                | 7440-39-3  | 10   | mg/kg   | <10                         | 99.3 mg/kg                            | 86.0                      | 70.0                              | 130  |
| EG005T: Beryllium                                             | 7440-41-7  | 1    | mg/kg   | <1                          | 0.67 mg/kg                            | 83.4                      | 70.0                              | 130  |
| EG005T: Boron                                                 | 7440-42-8  | 50   | mg/kg   | <50                         | ----                                  | ----                      | ----                              | ---- |
| EG005T: Cadmium                                               | 7440-43-9  | 1    | mg/kg   | <1                          | 1.23 mg/kg                            | 53.4                      | 50.0                              | 130  |
| EG005T: Chromium                                              | 7440-47-3  | 2    | mg/kg   | <2                          | 20.2 mg/kg                            | 92.7                      | 70.0                              | 130  |
| EG005T: Cobalt                                                | 7440-48-4  | 2    | mg/kg   | <2                          | 11.2 mg/kg                            | 85.2                      | 70.0                              | 130  |
| EG005T: Copper                                                | 7440-50-8  | 5    | mg/kg   | <5                          | 55.9 mg/kg                            | 87.1                      | 70.0                              | 130  |
| EG005T: Lead                                                  | 7439-92-1  | 5    | mg/kg   | <5                          | 62.4 mg/kg                            | 89.1                      | 70.0                              | 130  |
| EG005T: Manganese                                             | 7439-96-5  | 5    | mg/kg   | <5                          | 590 mg/kg                             | 87.3                      | 70.0                              | 130  |
| EG005T: Molybdenum                                            | 7439-98-7  | 2    | mg/kg   | <2                          | 2.19 mg/kg                            | 73.4                      | 70.0                              | 130  |
| EG005T: Nickel                                                | 7440-02-0  | 2    | mg/kg   | <2                          | 15.4 mg/kg                            | 92.3                      | 70.0                              | 130  |
| EG005T: Selenium                                              | 7782-49-2  | 5    | mg/kg   | <5                          | ----                                  | ----                      | ----                              | ---- |
| EG005T: Silver                                                | 7440-22-4  | 2    | mg/kg   | <2                          | 2.9 mg/kg                             | 125                       | 70.0                              | 130  |
| EG005T: Tin                                                   | 7440-31-5  | 5    | mg/kg   | <5                          | 5.33 mg/kg                            | 120                       | 70.0                              | 130  |
| EG005T: Vanadium                                              | 7440-62-2  | 5    | mg/kg   | <5                          | 61.3 mg/kg                            | 92.5                      | 70.0                              | 130  |
| EG005T: Zinc                                                  | 7440-66-6  | 5    | mg/kg   | <5                          | 162 mg/kg                             | 73.8                      | 70.0                              | 130  |
| EA001: pH in soil using 0.01M CaCl extract (QCLot: 5138473)   |            |      |         |                             |                                       |                           |                                   |      |
| EA001: pH (CaCl2)                                             | ----       | ---- | pH Unit | ----                        | 4 pH Unit                             | 101                       | 98.8                              | 101  |
|                                                               |            |      |         | ----                        | 7 pH Unit                             | 101                       | 99.3                              | 101  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5133303)    |            |      |         |                             |                                       |                           |                                   |      |
| EG035T: Mercury                                               | 7439-97-6  | 0.1  | mg/kg   | <0.1                        | 0.64 mg/kg                            | 88.3                      | 70.0                              | 130  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5135815) |            |      |         |                             |                                       |                           |                                   |      |
| EG048G: Hexavalent Chromium                                   | 18540-29-9 | 0.5  | mg/kg   | <0.5                        | 20 mg/kg                              | 84.0                      | 70.0                              | 130  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 5137264) |            |      |         |                             |                                       |                           |                                   |      |
| EK026SF: Total Cyanide                                        | 57-12-5    | 1    | mg/kg   | <1                          | 20 mg/kg                              | 121                       | 70.0                              | 130  |
| EK040T: Fluoride Total (QCLot: 5135812)                       |            |      |         |                             |                                       |                           |                                   |      |
| EK040T: Fluoride                                              | 16984-48-8 | 40   | mg/kg   | <40                         | 334 mg/kg                             | 102                       | 93.1                              | 107  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5133593)       |            |      |         |                             |                                       |                           |                                   |      |
| EP066-EM: Total Polychlorinated biphenyls                     | ----       | 0.1  | mg/kg   | <0.1                        | 1 mg/kg                               | 102                       | 67.4                              | 136  |



| Sub-Matrix: SOIL                                          |                      |            |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |        |                        |                           |
|-----------------------------------------------------------|----------------------|------------|-------|-----------------------------|---------------------------------------|--------|------------------------|---------------------------|
| Method: Compound                                          |                      | CAS Number | LOR   |                             | Unit                                  | Result | Spike<br>Concentration | Spike Recovery (%)<br>LCS |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585) |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Benzene                                         | 71-43-2              | 0.2        | mg/kg | <0.2                        | 2.1 mg/kg                             | 92.5   | 69.2                   | 116                       |
| EP074-UT: Toluene                                         | 108-88-3             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.3   | 67.7                   | 116                       |
| EP074-UT: Ethylbenzene                                    | 100-41-4             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.7   | 66.6                   | 115                       |
| EP074-UT: meta- & para-Xylene                             | 108-38-3<br>106-42-3 | 0.5        | mg/kg | <0.5                        | 4.2 mg/kg                             | 95.6   | 65.2                   | 112                       |
| EP074-UT: Styrene                                         | 100-42-5             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.1   | 69.4                   | 111                       |
| EP074-UT: ortho-Xylene                                    | 95-47-6              | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.0   | 68.4                   | 110                       |
| EP074H: Naphthalene (QCLot: 5133585)                      |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Naphthalene                                     | 91-20-3              | 1          | mg/kg | <1                          | 0.6 mg/kg                             | 95.5   | 72.3                   | 114                       |
| EP074I: Volatile Halogenated Compounds (QCLot: 5133585)   |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Vinyl chloride                                  | 75-01-4              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.2   | 47.0                   | 138                       |
| EP074-UT: 1,1-Dichloroethene                              | 75-35-4              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 92.1   | 57.6                   | 125                       |
| EP074-UT: Methylene chloride                              | 75-09-2              | 0.4        | mg/kg | <0.4                        | 2.1 mg/kg                             | 89.6   | 72.3                   | 115                       |
| EP074-UT: trans-1,2-Dichloroethene                        | 156-60-5             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.0   | 60.5                   | 122                       |
| EP074-UT: cis-1,2-Dichloroethene                          | 156-59-2             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 89.0   | 70.3                   | 112                       |
| EP074-UT: Chloroform                                      | 67-66-3              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.4   | 66.6                   | 115                       |
| EP074-UT: 1,1,1-Trichloroethane                           | 71-55-6              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 93.2   | 64.4                   | 122                       |
| EP074-UT: Carbon Tetrachloride                            | 56-23-5              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 90.4   | 58.4                   | 127                       |
| EP074-UT: 1,2-Dichloroethane                              | 107-06-2             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 93.2   | 72.9                   | 114                       |
| EP074-UT: Trichloroethene                                 | 79-01-6              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 93.8   | 64.7                   | 115                       |
| EP074-UT: 1,1,2-Trichloroethane                           | 79-00-5              | 0.04       | mg/kg | <0.04                       | 0.1 mg/kg                             | 93.1   | 72.6                   | 116                       |
| EP074-UT: Tetrachloroethene                               | 127-18-4             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 97.1   | 60.0                   | 119                       |
| EP074-UT: 1,1,1,2-Tetrachloroethane                       | 630-20-6             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 92.0   | 71.8                   | 116                       |
| EP074-UT: 1,1,1,2,2-Tetrachloroethane                     | 79-34-5              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 89.8   | 66.1                   | 116                       |
| EP074-UT: Hexachlorobutadiene                             | 87-68-3              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.0   | 39.8                   | 128                       |
| EP074-UT: Chlorobenzene                                   | 108-90-7             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 94.6   | 70.3                   | 113                       |
| EP074-UT: 1,4-Dichlorobenzene                             | 106-46-7             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 92.7   | 62.6                   | 113                       |
| EP074-UT: 1,2-Dichlorobenzene                             | 95-50-1              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.0   | 70.8                   | 110                       |
| EP074-UT: 1,2,4-Trichlorobenzene                          | 120-82-1             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 89.4   | 48.4                   | 120                       |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589) |                      |            |       |                             |                                       |        |                        |                           |
| EP075-EM: 2-Chlorophenol                                  | 95-57-8              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 85.0   | 74.5                   | 126                       |
| EP075-EM: 2,4-Dichlorophenol                              | 120-83-2             | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 83.5   | 72.7                   | 126                       |
| EP075-EM: 2,6-Dichlorophenol                              | 87-65-0              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 83.5   | 73.5                   | 132                       |
| EP075-EM: 4-Chloro-3-methylphenol                         | 59-50-7              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 84.4   | 72.8                   | 128                       |



| Sub-Matrix: SOIL                                                      |                       |      |       | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report |                           |                                   |     |
|-----------------------------------------------------------------------|-----------------------|------|-------|--------------------------|---------------------------------------|---------------------------|-----------------------------------|-----|
|                                                                       |                       |      |       |                          | Spike Concentration                   | Spike Recovery (%)<br>LCS | Acceptable Limits (%)<br>Low High |     |
| Method: Compound                                                      | CAS Number            | LOR  | Unit  | Result                   |                                       |                           |                                   |     |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589) - continued |                       |      |       |                          |                                       |                           |                                   |     |
| EP075-EM: 2,4,5-Trichlorophenol                                       | 95-95-4               | 0.05 | mg/kg | <0.05                    | 2 mg/kg                               | 83.5                      | 73.3                              | 134 |
| EP075-EM: 2,4,6-Trichlorophenol                                       | 88-06-2               | 0.05 | mg/kg | <0.05                    | 2 mg/kg                               | 82.1                      | 72.4                              | 128 |
| EP075-EM: 2,3,5,6-Tetrachlorophenol                                   | 935-95-5              | 0.03 | mg/kg | <0.03                    | 2 mg/kg                               | 79.1                      | 69.4                              | 126 |
| EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol                         | 4901-51-3/5<br>8-90-2 | 0.05 | mg/kg | <0.05                    | 4 mg/kg                               | 88.3                      | 71.9                              | 128 |
| EP075-EM: Pentachlorophenol                                           | 87-86-5               | 0.2  | mg/kg | <0.2                     | 4 mg/kg                               | 76.3                      | 54.4                              | 135 |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 5133589)         |                       |      |       |                          |                                       |                           |                                   |     |
| EP075-EM: Phenol                                                      | 108-95-2              | 1    | mg/kg | <1                       | 2 mg/kg                               | 85.6                      | 71.5                              | 130 |
| EP075-EM: 2-Methylphenol                                              | 95-48-7               | 1    | mg/kg | <1                       | 2 mg/kg                               | 86.5                      | 73.4                              | 129 |
| EP075-EM: 3- & 4-Methylphenol                                         | 1319-77-3             | 1    | mg/kg | <1                       | 4 mg/kg                               | 84.1                      | 74.3                              | 129 |
| EP075-EM: 2-Nitrophenol                                               | 88-75-5               | 1    | mg/kg | <1                       | 2 mg/kg                               | 90.8                      | 70.9                              | 133 |
| EP075-EM: 2,4-Dimethylphenol                                          | 105-67-9              | 1    | mg/kg | <1                       | 2 mg/kg                               | 78.5                      | 71.8                              | 132 |
| EP075-EM: 2,4-Dinitrophenol                                           | 51-28-5               | 5    | mg/kg | <5                       | 10 mg/kg                              | 81.5                      | 41.0                              | 156 |
| EP075-EM: 4-Nitrophenol                                               | 100-02-7              | 5    | mg/kg | <5                       | 10 mg/kg                              | 92.4                      | 65.3                              | 134 |
| EP075-EM: 2-Methyl-4,6-dinitrophenol                                  | 8071-51-0             | 5    | mg/kg | <5                       | 10 mg/kg                              | 86.2                      | 43.6                              | 128 |
| EP075-EM: Dinoseb                                                     | 88-85-7               | 5    | mg/kg | <5                       | 10 mg/kg                              | 84.3                      | 62.0                              | 128 |
| EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol                              | 131-89-5              | 5    | mg/kg | <5                       | 10 mg/kg                              | 77.1                      | 34.5                              | 137 |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5133589)            |                       |      |       |                          |                                       |                           |                                   |     |
| EP075-EM: Naphthalene                                                 | 91-20-3               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 87.7                      | 73.0                              | 131 |
| EP075-EM: Acenaphthene                                                | 83-32-9               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 85.5                      | 76.3                              | 130 |
| EP075-EM: Acenaphthylene                                              | 208-96-8              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 86.9                      | 72.0                              | 135 |
| EP075-EM: Fluorene                                                    | 86-73-7               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 88.2                      | 74.4                              | 131 |
| EP075-EM: Phenanthrene                                                | 85-01-8               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 87.9                      | 73.3                              | 130 |
| EP075-EM: Anthracene                                                  | 120-12-7              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 87.2                      | 78.4                              | 127 |
| EP075-EM: Fluoranthene                                                | 206-44-0              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 86.3                      | 75.3                              | 132 |
| EP075-EM: Pyrene                                                      | 129-00-0              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 86.7                      | 75.4                              | 130 |
| EP075-EM: Benz(a)anthracene                                           | 56-55-3               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 82.9                      | 69.6                              | 133 |
| EP075-EM: Chrysene                                                    | 218-01-9              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 87.3                      | 75.0                              | 133 |
| EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene                           | 205-99-2<br>207-08-9  | 1    | mg/kg | <1.0                     | 4 mg/kg                               | 85.9                      | 75.8                              | 133 |
| EP075-EM: Benzo(a)pyrene                                              | 50-32-8               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 84.8                      | 65.1                              | 130 |
| EP075-EM: Indeno(1.2.3.cd)pyrene                                      | 193-39-5              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 85.3                      | 72.1                              | 134 |
| EP075-EM: Dibenz(a,h)anthracene                                       | 53-70-3               | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 84.9                      | 72.9                              | 135 |
| EP075-EM: Benzo(g,h,i)perylene                                        | 191-24-2              | 0.5  | mg/kg | <0.5                     | 2 mg/kg                               | 84.8                      | 71.3                              | 134 |
| EP075I: Organochlorine Pesticides (QCLot: 5133589)                    |                       |      |       |                          |                                       |                           |                                   |     |



| 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                      |                                       |                           |                                   |     |
| EP075I: Organochlorine Pesticides (QCLot: 5133589) - continued                   |            |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: alpha-BHC                                                              | 319-84-6   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.0                      | 71.0                              | 129 |
| EP075-EM: Hexachlorobenzene (HCB)                                                | 118-74-1   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 85.7                      | 74.8                              | 126 |
| EP075-EM: beta-BHC                                                               | 319-85-7   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.6                      | 75.7                              | 130 |
| EP075-EM: gamma-BHC                                                              | 58-89-9    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.7                      | 70.8                              | 130 |
| EP075-EM: delta-BHC                                                              | 319-86-8   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 87.1                      | 76.5                              | 134 |
| EP075-EM: Heptachlor                                                             | 76-44-8    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.5                              | 131 |
| EP075-EM: Aldrin                                                                 | 309-00-2   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 85.1                      | 76.8                              | 130 |
| EP075-EM: Heptachlor epoxide                                                     | 1024-57-3  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.4                      | 73.6                              | 130 |
| EP075-EM: cis-Chlordane                                                          | 5103-71-9  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.0                              | 133 |
| EP075-EM: trans-Chlordane                                                        | 5103-74-2  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.3                              | 131 |
| EP075-EM: Endosulfan 1                                                           | 959-98-8   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 93.8                      | 69.4                              | 134 |
| EP075-EM: 4,4`-DDE                                                               | 72-55-9    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 85.7                      | 71.0                              | 132 |
| EP075-EM: Dieldrin                                                               | 60-57-1    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 82.5                      | 78.0                              | 133 |
| EP075-EM: Endrin aldehyde                                                        | 7421-93-4  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.7                      | 69.0                              | 143 |
| EP075-EM: Endrin                                                                 | 72-20-8    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 90.1                      | 55.7                              | 145 |
| EP075-EM: Endosulfan 2                                                           | 33213-65-9 | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.4                      | 71.4                              | 135 |
| EP075-EM: 4,4`-DDD                                                               | 72-54-8    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 82.6                      | 74.8                              | 134 |
| EP075-EM: Endosulfan sulfate                                                     | 1031-07-8  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 83.0                      | 70.2                              | 135 |
| EP075-EM: 4,4`-DDT                                                               | 50-29-3    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 85.9                      | 77.7                              | 133 |
| EP075-EM: Methoxychlor                                                           | 72-43-5    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 89.5                      | 63.6                              | 135 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133253)                         |            |      |       |                             |                                       |                           |                                   |     |
| EP080: C6 - C9 Fraction                                                          | ----       | 10   | mg/kg | <10                         | 36 mg/kg                              | 81.2                      | 58.6                              | 131 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133585)                         |            |      |       |                             |                                       |                           |                                   |     |
| EP074-UT: C6 - C9 Fraction                                                       | ----       | 10   | mg/kg | <10                         | 39.6 mg/kg                            | 100                       | 61.1                              | 119 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133592)                         |            |      |       |                             |                                       |                           |                                   |     |
| EP071-EM: C10 - C14 Fraction                                                     | ----       | 50   | mg/kg | <50                         | 770 mg/kg                             | 96.2                      | 74.4                              | 129 |
| EP071-EM: C15 - C28 Fraction                                                     | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 94.2                      | 81.0                              | 123 |
| EP071-EM: C29 - C36 Fraction                                                     | ----       | 100  | mg/kg | <100                        | 1540 mg/kg                            | 98.5                      | 81.8                              | 121 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5134352)                         |            |      |       |                             |                                       |                           |                                   |     |
| EP071: C10 - C14 Fraction                                                        | ----       | 50   | mg/kg | <50                         | 770 mg/kg                             | 99.1                      | 75.0                              | 128 |
| EP071: C15 - C28 Fraction                                                        | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 97.4                      | 82.0                              | 123 |
| EP071: C29 - C36 Fraction                                                        | ----       | 100  | mg/kg | <100                        | 1540 mg/kg                            | 102                       | 82.4                              | 121 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133253) |            |      |       |                             |                                       |                           |                                   |     |
| EP080: C6 - C10 Fraction                                                         | C6_C10     | 10   | mg/kg | <10                         | 45 mg/kg                              | 84.5                      | 59.3                              | 128 |

| Sub-Matrix: WATER                                                                |            |     |      | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report |                    |                       |      |
|----------------------------------------------------------------------------------|------------|-----|------|--------------------------|---------------------------------------|--------------------|-----------------------|------|
|                                                                                  |            |     |      |                          | Spike Concentration                   | Spike Recovery (%) | Acceptable Limits (%) |      |
| Method: Compound                                                                 | CAS Number | LOR | Unit | Result                   | Concentration                         | LCS                | Low                   | High |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5131510)                         |            |     |      |                          |                                       |                    |                       |      |
| EP071: C10 - C14 Fraction                                                        | ----       | 50  | µg/L | <50                      | 4560 µg/L                             | 83.4               | 47.2                  | 122  |
| EP071: C15 - C28 Fraction                                                        | ----       | 100 | µg/L | <100                     | 16200 µg/L                            | 89.9               | 52.9                  | 131  |
| EP071: C29 - C36 Fraction                                                        | ----       | 50  | µg/L | <50                      | 8650 µg/L                             | 99.8               | 50.4                  | 127  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5132259)                         |            |     |      |                          |                                       |                    |                       |      |
| EP080: C6 - C9 Fraction                                                          | ----       | 20  | µg/L | <20                      | 360 µg/L                              | 95.6               | 66.2                  | 134  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5131510) |            |     |      |                          |                                       |                    |                       |      |
| EP071: >C10 - C16 Fraction                                                       | ----       | 100 | µg/L | <100                     | 6190 µg/L                             | 80.0               | 49.1                  | 125  |
| EP071: >C16 - C34 Fraction                                                       | ----       | 100 | µg/L | <100                     | 22200 µg/L                            | 92.8               | 51.6                  | 128  |
| EP071: >C34 - C40 Fraction                                                       | ----       | 100 | µg/L | <100                     | 1520 µg/L                             | 99.1               | 47.2                  | 130  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5132259) |            |     |      |                          |                                       |                    |                       |      |
| EP080: C6 - C10 Fraction                                                         | C6_C10     | 20  | µg/L | <20                      | 450 µg/L                              | 94.9               | 66.2                  | 132  |
| EP080: BTEXN (QCLot: 5132259)                                                    |            |     |      |                          |                                       |                    |                       |      |



Sub-Matrix: **WATER**

| Method: Compound                                 |          |      |        | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report |                    |                       |      |
|--------------------------------------------------|----------|------|--------|--------------------------|---------------------------------------|--------------------|-----------------------|------|
|                                                  |          |      |        |                          | Spike Concentration                   | Spike Recovery (%) | Acceptable Limits (%) |      |
| CAS Number                                       | LOR      | Unit | Result |                          |                                       | LCS                | Low                   | High |
| <b>EP080: BTEXN (QCLot: 5132259) - continued</b> |          |      |        |                          |                                       |                    |                       |      |
| EP080: Benzene                                   | 71-43-2  | 1    | µg/L   | <1                       | 20 µg/L                               | 93.6               | 68.8                  | 127  |
| EP080: Toluene                                   | 108-88-3 | 2    | µg/L   | <2                       | 20 µg/L                               | 96.6               | 72.9                  | 129  |
| EP080: Ethylbenzene                              | 100-41-4 | 2    | µg/L   | <2                       | 20 µg/L                               | 97.2               | 71.7                  | 130  |
| EP080: meta- & para-Xylene                       | 108-38-3 | 2    | µg/L   | <2                       | 40 µg/L                               | 96.2               | 72.3                  | 136  |
|                                                  | 106-42-3 |      |        |                          |                                       |                    |                       |      |
| EP080: ortho-Xylene                              | 95-47-6  | 2    | µg/L   | <2                       | 20 µg/L                               | 97.3               | 75.9                  | 134  |
| EP080: Naphthalene                               | 91-20-3  | 5    | µg/L   | <5                       | 5 µg/L                                | 98.4               | 68.3                  | 131  |

### 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**

| 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: 5133302)       |           |                                           |            |                          |                  |                       |      |
| EM2311363-011                                                 | Anonymous | EG005T: Arsenic                           | 7440-38-2  | 50 mg/kg                 | 87.1             | 78.0                  | 124  |
|                                                               |           | EG005T: Cadmium                           | 7440-43-9  | 50 mg/kg                 | 88.0             | 79.7                  | 116  |
|                                                               |           | EG005T: Chromium                          | 7440-47-3  | 50 mg/kg                 | 85.4             | 79.0                  | 121  |
|                                                               |           | EG005T: Copper                            | 7440-50-8  | 250 mg/kg                | 90.7             | 80.0                  | 120  |
|                                                               |           | EG005T: Lead                              | 7439-92-1  | 250 mg/kg                | 89.1             | 80.0                  | 120  |
|                                                               |           | EG005T: Nickel                            | 7440-02-0  | 50 mg/kg                 | 88.3             | 78.0                  | 120  |
|                                                               |           | EG005T: Zinc                              | 7440-66-6  | 250 mg/kg                | 85.6             | 80.0                  | 120  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5133303)    |           |                                           |            |                          |                  |                       |      |
| EM2311363-011                                                 | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.5 mg/kg                | 91.2             | 76.0                  | 116  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5135815) |           |                                           |            |                          |                  |                       |      |
| EM2311403-002                                                 | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 63.2             | 58.0                  | 114  |
| EM2311403-002                                                 | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 75.4             | 58.0                  | 114  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 5137264) |           |                                           |            |                          |                  |                       |      |
| EM2311047-008                                                 | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 20 mg/kg                 | 87.0             | 70.0                  | 130  |
| EK040T: Fluoride Total (QCLot: 5135812)                       |           |                                           |            |                          |                  |                       |      |
| EM2311047-008                                                 | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 400 mg/kg                | 98.7             | 70.0                  | 130  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5133593)       |           |                                           |            |                          |                  |                       |      |
| EM2311316-007                                                 | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 1 mg/kg                  | 95.2             | 59.6                  | 152  |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585)     |           |                                           |            |                          |                  |                       |      |
| EM2311353-010                                                 | Anonymous | EP074-UT: Benzene                         | 71-43-2    | 2 mg/kg                  | 92.6             | 53.7                  | 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 |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585) - continued            |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: Toluene                 | 108-88-3   | 2 mg/kg                  | 93.0             | 55.1                  | 124  |
| EP074I: Volatile Halogenated Compounds (QCLot: 5133585)                          |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: 1,1-Dichloroethene      | 75-35-4    | 2 mg/kg                  | 88.6             | 38.4                  | 145  |
|                                                                                  |           | EP074-UT: Trichloroethene         | 79-01-6    | 2 mg/kg                  | 86.3             | 48.1                  | 128  |
|                                                                                  |           | EP074-UT: Chlorobenzene           | 108-90-7   | 2 mg/kg                  | 89.1             | 55.5                  | 122  |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589)                        |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: 2-Chlorophenol          | 95-57-8    | 3 mg/kg                  | 91.5             | 44.0                  | 143  |
|                                                                                  |           | EP075-EM: 4-Chloro-3-methylphenol | 59-50-7    | 3 mg/kg                  | 88.7             | 41.5                  | 139  |
|                                                                                  |           | EP075-EM: Pentachlorophenol       | 87-86-5    | 3 mg/kg                  | 71.3             | 10.0                  | 144  |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 5133589)                    |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: Phenol                  | 108-95-2   | 3 mg/kg                  | 87.6             | 44.2                  | 134  |
|                                                                                  |           | EP075-EM: 2-Nitrophenol           | 88-75-5    | 3 mg/kg                  | 89.6             | 34.2                  | 129  |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5133589)                       |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: Acenaphthene            | 83-32-9    | 3 mg/kg                  | 89.3             | 42.6                  | 138  |
|                                                                                  |           | EP075-EM: Pyrene                  | 129-00-0   | 3 mg/kg                  | 89.6             | 37.8                  | 152  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133253)                         |           |                                   |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: C6 - C9 Fraction           | ----       | 28 mg/kg                 | 59.5             | 33.4                  | 124  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133585)                         |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: C6 - C9 Fraction        | ----       | 28 mg/kg                 | 78.6             | 42.3                  | 111  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133592)                         |           |                                   |            |                          |                  |                       |      |
| EM2311316-001                                                                    | Anonymous | EP071-EM: C10 - C14 Fraction      | ----       | 770 mg/kg                | 98.2             | 71.3                  | 126  |
|                                                                                  |           | EP071-EM: C15 - C28 Fraction      | ----       | 2860 mg/kg               | 96.7             | 75.1                  | 123  |
|                                                                                  |           | EP071-EM: C29 - C36 Fraction      | ----       | 1540 mg/kg               | 101              | 78.1                  | 120  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5134352)                         |           |                                   |            |                          |                  |                       |      |
| EM2311363-010                                                                    | Anonymous | EP071: C10 - C14 Fraction         | ----       | 770 mg/kg                | 121              | 71.2                  | 125  |
|                                                                                  |           | EP071: C15 - C28 Fraction         | ----       | 2860 mg/kg               | 109              | 75.6                  | 122  |
|                                                                                  |           | EP071: C29 - C36 Fraction         | ----       | 1540 mg/kg               | # 127            | 78.0                  | 120  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133253) |           |                                   |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: C6 - C10 Fraction          | C6_C10     | 33 mg/kg                 | 55.6             | 30.8                  | 120  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133585) |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: C6 - C10 Fraction       | C6_C10     | 33 mg/kg                 | 77.4             | 39.9                  | 109  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133592) |           |                                   |            |                          |                  |                       |      |
| EM2311316-001                                                                    | Anonymous | EP071-EM: >C10 - C16 Fraction     | ----       | 1170 mg/kg               | 87.4             | 71.5                  | 130  |
|                                                                                  |           | EP071-EM: >C16 - C34 Fraction     | ----       | 3830 mg/kg               | 100              | 76.9                  | 119  |
|                                                                                  |           | EP071-EM: >C34 - C40 Fraction     | ----       | 290 mg/kg                | 78.9             | 65.3                  | 139  |

Page : 18 of 18  
 Work Order : EM2311383  
 Client : HELIA EHS PTY LTD  
 Project : 20220134



| Sub-Matrix: SOIL                                                                 |           |                            |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|-----------|----------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |           |                            |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID | Method: Compound           | CAS Number | Concentration            | MS               | Low                   | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5134352) |           |                            |            |                          |                  |                       |      |
| EM2311363-010                                                                    | Anonymous | EP071: >C10 - C16 Fraction | ----       | 1170 mg/kg               | 116              | 72.2                  | 128  |
|                                                                                  |           | EP071: >C16 - C34 Fraction | ----       | 3830 mg/kg               | 110              | 76.5                  | 119  |
|                                                                                  |           | EP071: >C34 - C40 Fraction | ----       | 290 mg/kg                | # Not Determined | 66.8                  | 138  |
| EP080: BTEXN (QCLot: 5133253)                                                    |           |                            |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: Benzene             | 71-43-2    | 2 mg/kg                  | 87.7             | 54.4                  | 127  |
|                                                                                  |           | EP080: Toluene             | 108-88-3   | 2 mg/kg                  | 82.8             | 57.1                  | 131  |
| Sub-Matrix: WATER                                                                |           |                            |            | Matrix Spike (MS) Report |                  |                       |      |
|                                                                                  |           |                            |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID | Method: Compound           | CAS Number | Concentration            | MS               | Low                   | High |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5132259)                         |           |                            |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: C6 - C9 Fraction    | ----       | 280 µg/L                 | 83.3             | 33.9                  | 126  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5132259) |           |                            |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: C6 - C10 Fraction   | C6_C10     | 330 µg/L                 | 73.1             | 34.0                  | 122  |
| EP080: BTEXN (QCLot: 5132259)                                                    |           |                            |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: Benzene             | 71-43-2    | 20 µg/L                  | 99.4             | 56.3                  | 133  |
|                                                                                  |           | EP080: Toluene             | 108-88-3   | 20 µg/L                  | 104              | 60.4                  | 132  |



**URGENT**

Ciara Barr

---

**From:** Garry Masur <garry.masur@heliaehs.au>  
**Sent:** Tuesday, 4 July 2023 9:23 AM  
**To:** Celline Tamin; ALS Enviro Melbourne  
**Cc:** Ella Denton  
**Subject:** [EXTERNAL] - 20220134: RESULTS & EDD for ALS Workorder : EM2311383 | Your Reference: 20220134

**Attachments:**  
EM2311383\_0\_COA.pdf; 20220134.ESDAT\_EM2311383\_0.Chemistry2e.CSV;  
20220134.ESDAT\_EM2311383\_0.Header.XML; 20220134.ESDAT\_EM2311383\_0.Sample2e.CSV; EM2311383\_COA.pdf; EM2311383\_0\_COA\_GL\_EPA\_WASTE.pdf; EM2311383\_0\_QC.pdf; EM2311383\_0\_QCI.pdf

**CAUTION:** This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hi Celline,

Could you please arrange for ASLP zinc analysis on sample SP01-1 in this batch on fastest possible turnaround.

Please let me know what the turnaround will be so that I can inform our client.

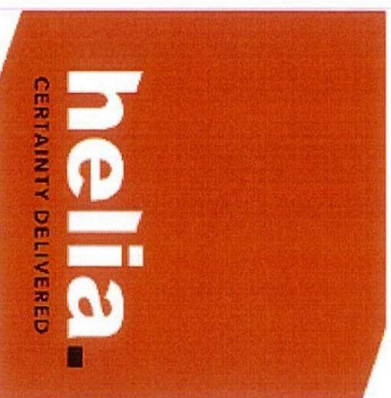
Thanks, Garry

**GARRY MASUR**  
**Principal Environmental Consultant**

Helia EHS  
423 City Road  
SOUTH MELBOURNE VIC 3205

p. (03) 8625 9696  
m: 0409 106 107

[www.heliaehs.au](http://www.heliaehs.au)







## CERTIFICATE OF ANALYSIS

**Work Order** : **EM2311992**  
**Client** : **HELIA EHS PTY LTD**  
**Contact** : **ELLA DENTON**  
**Address** : **423 CITY ROAD**  
**SOUTH MELBOURNE VIC 3205**  
**Telephone** : **----**  
**Project** : **20220134**  
**Order number** : **20220134**  
**C-O-C number** : **----**  
**Sampler** : **Ella Denton/ Garry Masur**  
**Site** : **Hopetoun Park**  
**Quote number** : **MEBQ/108/21 Primary Work**  
**No. of samples received** : **1**  
**No. of samples analysed** : **1**

**Page** : **1 of 4**  
**Laboratory** : **Environmental Division Melbourne**  
**Contact** : **Celline Tamin**  
**Address** : **4 Westall Rd Springvale VIC Australia 3171**  
**Telephone** : **+61-3-8549 9600**  
**Date Samples Received** : **22-Jun-2023 13:30**  
**Date Analysis Commenced** : **04-Jul-2023**  
**Issue Date** : **05-Jul-2023 15:43**



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

**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

Dilani Fernando

Laboratory Coordinator

Melbourne Inorganics, Springvale, VIC



## 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.

- This is a rebatch of EM2311383.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

|                                              |            |     |      |                      |                   |       |       |       |      |
|----------------------------------------------|------------|-----|------|----------------------|-------------------|-------|-------|-------|------|
| Sub-Matrix: ASLP LEACHATE<br>(Matrix: WATER) |            |     |      | Sample ID            | SP01-1            | ----  | ----  | ----  | ---- |
|                                              |            |     |      | Sampling date / time | 22-Jun-2023 00:00 | ----  | ----  | ----  | ---- |
| Compound                                     | CAS Number | LOR | Unit | EM2311992-001        | -----             | ----- | ----- | ----- |      |
|                                              |            |     |      | Result               | ----              | ----  | ----  | ----  |      |
| EG005(ED093)C: Leachable Metals by ICPAES    |            |     |      |                      |                   |       |       |       |      |
| Zinc                                         | 7440-66-6  | 0.1 | mg/L | 0.7                  | ---               | ---   | ---   | ---   |      |



Analytical Results

|                                                                  |            |     |         |                      |                   |       |       |       |      |
|------------------------------------------------------------------|------------|-----|---------|----------------------|-------------------|-------|-------|-------|------|
| Sub-Matrix: <b>SOIL</b><br>(Matrix: <b>SOIL</b> )                |            |     |         | Sample ID            | SP01-1            | ----  | ----  | ----  | ---- |
|                                                                  |            |     |         | Sampling date / time | 22-Jun-2023 00:00 | ----  | ----  | ----  | ---- |
| Compound                                                         | CAS Number | LOR | Unit    | EM2311992-001        | -----             | ----- | ----- | ----- |      |
|                                                                  |            |     |         |                      | Result            | ----  | ----  | ----  | ---- |
| EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel) |            |     |         |                      |                   |       |       |       |      |
| Initial pH                                                       | ----       | 0.1 | pH Unit | 8.3                  | ----              | ----  | ----  | ----  |      |
| After HCl pH                                                     | ----       | 0.1 | pH Unit | 1.5                  | ----              | ----  | ----  | ----  |      |
| Extraction Fluid pH                                              | ----       | 0.1 | pH Unit | 5.0                  | ----              | ----  | ----  | ----  |      |
| Final pH                                                         | ----       | 0.1 | pH Unit | 5.1                  | ----              | ----  | ----  | ----  |      |



## QUALITY CONTROL REPORT

|                         |                                             |                         |                                              |
|-------------------------|---------------------------------------------|-------------------------|----------------------------------------------|
| Work Order              | : EM2311992                                 | Page                    | : 1 of 3                                     |
| Client                  | : HELIA EHS PTY LTD                         | Laboratory              | : Environmental Division Melbourne           |
| Contact                 | : ELLA DENTON                               | Contact                 | : Celline Tamin                              |
| Address                 | : 423 CITY ROAD<br>SOUTH MELBOURNE VIC 3205 | Address                 | : 4 Westall Rd Springvale VIC Australia 3171 |
| Telephone               | : ----                                      | Telephone               | : +61-3-8549 9600                            |
| Project                 | : 20220134                                  | Date Samples Received   | : 22-Jun-2023                                |
| Order number            | : 20220134                                  | Date Analysis Commenced | : 04-Jul-2023                                |
| C-O-C number            | : ----                                      | Issue Date              | : 05-Jul-2023                                |
| Sampler                 | : Ella Denton/ Garry Masur                  |                         |                                              |
| Site                    | : Hopetoun Park                             |                         |                                              |
| Quote number            | : MEBQ/108/21 Primary Work                  |                         |                                              |
| No. of samples received | : 1                                         |                         |                                              |
| No. of samples analysed | : 1                                         |                         |                                              |



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                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |



## 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: **WATER**

|                                                                    |           |                  |            | 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)C: Leachable Metals by ICPAES (QC Lot: 5152757)</b> |           |                  |            |                                   |      |                 |                  |         |                    |
| EM2311992-001                                                      | SP01-1    | EG005C: Zinc     | 7440-66-6  | 0.1                               | mg/L | 0.7             | 0.7              | 0.0     | No Limit           |



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

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

Sub-Matrix: WATER

| Sub-Matrix: <b>WATER</b>                                   |            |     |      | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                    |                       |     |
|------------------------------------------------------------|------------|-----|------|-----------------------------|---------------------------------------|--------------------|-----------------------|-----|
|                                                            |            |     |      |                             | Spike<br>Concentration                | Spike Recovery (%) | Acceptable Limits (%) |     |
| Method: Compound                                           | CAS Number | LOR | Unit |                             |                                       | Result             | LCS                   | Low |
| EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 5152757) |            |     |      |                             |                                       |                    |                       |     |
| EG005C: Zinc                                               | 7440-66-6  | 0.1 | mg/L | <0.1                        | 1 mg/L                                | 89.3               | 80.0                  | 120 |

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.

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



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

|              |                            |                         |                                    |
|--------------|----------------------------|-------------------------|------------------------------------|
| Work Order   | : EM2311992                | Page                    | : 1 of 4                           |
| Client       | : HELIA EHS PTY LTD        | Laboratory              | : Environmental Division Melbourne |
| Contact      | : ELLA DENTON              | Telephone               | : +61-3-8549 9600                  |
| Project      | : 20220134                 | Date Samples Received   | : 22-Jun-2023                      |
| Site         | : Hopetoun Park            | Issue Date              | : 05-Jul-2023                      |
| Sampler      | : Ella Denton/ Garry Masur | No. of samples received | : 1                                |
| Order number | : 20220134                 | No. of samples analysed | : 1                                |

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

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

### Summary of Outliers

#### Outliers : Quality Control Samples

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

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

#### Outliers : Analysis Holding Time Compliance

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

#### Outliers : Frequency of Quality Control Samples

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





Outliers : Frequency of Quality Control Samples

| Matrix: <b>WATER</b>                  |       |         |          |          |                                |
|---------------------------------------|-------|---------|----------|----------|--------------------------------|
| Quality Control Sample Type<br>Method | Count |         | Rate (%) |          | Quality Control Specification  |
|                                       | QC    | Regular | Actual   | Expected |                                |
|                                       | 0     |         |          |          |                                |
| Matrix Spikes (MS)                    |       |         |          |          |                                |
| Leachable Metals by ICPAES            | 0     | 1       | 0.00     | 5.00     | NEPM 2013 B3 & ALS QC Standard |

Analysis Holding Time Compliance

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

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

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

Holding times for 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: <b>SOIL</b>                                                          |             |                          |                    | 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 |
| EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)             |             |                          |                    |                                                                                                                                    |               |                  |            |
| Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)<br>SP01-1 | 22-Jun-2023 | 04-Jul-2023              | 19-Dec-2023        | ✔                                                                                                                                  | ----          | ----             | ----       |

| Matrix: <b>WATER</b>                                              |  |             |                          |                    | 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 |
| EG005(ED093)C: Leachable Metals by ICPAES                         |  |             |                          |                    |                                                                                                                                    |               |                  |            |
| Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C)<br>SP01-1 |  | 04-Jul-2023 | 05-Jul-2023              | 31-Dec-2023        | ✔                                                                                                                                  | 05-Jul-2023   | 31-Dec-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: **WATER**

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)      |        |       |         |          |          |            |                                |
| Leachable Metals by ICPAES       | EG005C | 1     | 1       | 100.00   | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) |        |       |         |          |          |            |                                |
| Leachable Metals by ICPAES       | EG005C | 1     | 1       | 100.00   | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB)               |        |       |         |          |          |            |                                |
| Leachable Metals by ICPAES       | EG005C | 1     | 1       | 100.00   | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS)               |        |       |         |          |          |            |                                |
| Leachable Metals by ICPAES       | EG005C | 0     | 1       | 0.00     | 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                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------|---------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Leachable Metals by ICPAES                                     | EG005C  | SOIL   | In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM Schedule B(3). |
| Preparation Methods                                            | Method  | Matrix | Method Descriptions                                                                                                                                                                                                                                                                  |
| Digestion for Total Recoverable Metals in TCLP Leachate        | EN25C   | SOIL   | In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)                                           |
| ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel | EN60a-P | SOIL   | In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.                                                                                                                                                                                                                  |

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# Appendix E: Waste Categorisation Report



7/07/2023

Ross Closter  
Urban Land Developments  
Level 1, 237 Ryrie Street  
Geelong VIC 3220

Ref: 20220134-R-03

Dear Ross,

Subject: Soil Classification, 124 Hopetoun Park Road, Hopetoun Park, Victoria

## 1. Introduction

Helia EHS (Helia) was engaged by Urban Land Developments (the Client) to classify soil stockpiled at 124 Hopetoun Park Road, Hopetoun Park, Victoria (the Site).

The soil classification was conducted through sampling of a stockpile containing approximately 30 m<sup>3</sup> of material excavated as part of a soil remediation program. The classification is based on laboratory data obtained through stockpile sampling as well as earlier laboratory data obtained through the soil assessment that prompted remediation.

### 1.1 Standards of Assessment

The works were conducted in general accordance with industry best practice approaches and methodologies, as outlined in the following guidelines and standards:

- EPA Victoria (2021) *Waste classification assessment protocol*, Publication 1827.2, March 2021.
- EPA Victoria (2021) *Waste Disposal Categories – Characteristics and Thresholds*, Publication 1828.2, March 2021.
- EPA Victoria (2009) *Soil Sampling*, Publication IWRG702, June 2009.
- National Environment Protection Council (NEPC), *National Environment Protection (Assessment of Site Contamination) Measure* 1999 (NEPM 2013).
- Standards Australia AS4482.1-2005, *Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds* (AS4482.1-2005).
- Standards Australia AS 4482.2-1999, *Guide to the sampling and investigation of potentially contaminated soil, Part 2: Volatile substances* (AS4482.2-1999).

## 2. Field Work

### 2.1 Soil Sampling

Soil sampling contributing to this waste soil classification was initially conducted as part of a program of targeted soil assessment on 9 June 2022, with samples BH09-0.1 and BH10-0.1 collected from the areas that was later excavated and stockpiled. Stockpile sampling (samples SP01-1 to SP01-10) was conducted on 22 June 2023 from material excavated as part of remediation works.

Sampling was conducted by experienced Helia Environmental staff in accordance with the following methodology:

- Soil bores were drilled using mechanically driven solid augers with samples collected directly from auger flights, with care taken to ensure sampled material was representative of the intended depths;
- Samples taken from the stockpile were collected directly into jars provided by the laboratory;
- All soil samples collected were subject to screening in the field for the presence of volatile organic compounds (VOCs) using initial visual and olfactory assessment; and subsequent screen using a calibrated 10.6eV lamp photo-ionisation detector (PID). PID calibration certificates are provided in **Attachment 3**;
- Soil samples were placed in laboratory provided and prepared sample jars with Teflon® sealed lids;
- All soil samples were identified with a unique sample identifier, which was documented on: the sample label; sample log sheet and chain of custody form;
- A sample log was completed including: a description of materials encountered; olfactory and visual evidence of contamination; moisture conditions; and sample identifiers;
- All soil samples were placed in an ice-cooled storage box (e.g., Esky® or similar) immediately after collection. The samples were transported under chain of custody documentation to the analytical laboratory; and
- Nitrile disposal gloves were worn when collecting soil samples.

Soils sampled as part of the assessment are generally described as red-brown silty clay with some fine and coarse gravels (basalt floaters), soft to firm, dry to slightly moist, with anthropogenic inclusions (i.e., timber, metal, hay, twine). No odour or staining was observed.

The PID screening of soil in the field indicated low potential for VOC contamination, with readings ranging from 0.3 to 0.4 ppm probably indicative of background conditions.

### 2.2 Laboratory Analysis

Samples were submitted to a National Association of Testing Authorities (NATA)-accredited laboratory for analysis of potential contaminants of concern (CoPC), as detailed below:

- One sample for **EPA Publication 1828.2 Table 3 Suite**
- One sample for **Heavy Metals**
- One sample for **NEPM HIL Suite with herbicides**
- One sample for **TRH, BTEXN, PAH, OPP, OCP, Heavy Metals**.

One sample reported a zinc concentration above the upper limit for Fill Material in accordance with EPA Publication 1828.2 criteria. As a result, zinc leachability analysis was conducted on that sample using the Australian Standard Leaching Procedure (ASLP).

### 3. Discussion of Results

The stockpile sampled as part of this assessment includes soil excavated from two sample locations during the PSI (Report ref: **20220134-R-01.2**). Therefore, laboratory data for two samples (i.e., BH09-0.1 and BH10-0.1) have been considered in this soil classification.

Refer to **Attachment 1** for a summary of analytical results comparing contaminant concentrations against EPA Publication 1828.2 upper limits. NATA laboratory transcripts are presented in **Attachment 2**.<sup>1</sup>

#### 3.1 Analytical Results – Total Concentration

All samples analysed reported contaminant concentrations below the laboratory limit of reporting (LOR) or below EPA Publication 1828.2 Fill Material upper limits except for:

- zinc in SP01-1; and
- Total TPH C10-C36 in BH09-0.1 and BH10-0.1;

which were reported within the range for Category D industrial waste.

#### 3.2 Analytical Result – ASLP Leachability

The sample analysed for leachable zinc reported a concentration below the EPA Publication 1828.2 Category D / industrial waste leachable concentration upper limit. Hence, the result of ASLP leachability analysis does not change the overall classification of soils tested in this Assessment.

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<sup>1</sup> This soil classification is based solely on laboratory data for samples BH09-0.1, BH10-0.1, SP01-1 and SP01-6. The laboratory reports included in Attachment 2 contain data from other samples analysed as part of site investigations, but not from the volume of soil classified in this report – these other data have no bearing on this soil classification.

## 4. Soil Classification

Based on the analytical results discussed above, soil is classified as **Cat D/Industrial Waste** for the purposes of offsite disposal, in accordance with EPA Publication 1828.2 (2021). A summary of the soil classification details is provided in *Table 1*.

*Table 1: Soil Classification*

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Volume of soil classified   | up to 100 m <sup>3</sup>                                                |
| Number of samples analysed  | 4                                                                       |
| Classification method       | Highest Concentration                                                   |
| Analytes exceeding criteria | Zinc and TPH                                                            |
| Soil Classification         | Cat D/Industrial Waste<br>Reportable Priority Waste<br>Waste Code: N120 |

Soil must be disposed of at a lawful place (e.g. licensed landfill) in accordance with EPA Victoria legislation. This report should be provided (in full) to the intended waste facility prior to landfill acceptance.

Please do not hesitate to contact the undersigned on (03) 8625 9696 if you have any questions you wish to discuss.

Yours sincerely,



Author:  
**Mikki Nada**  
Environmental Consultant  
Helia EHS



Reviewer:  
**Garry Masur**  
Principal Environmental Consultant  
Helia EHS



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## **Attachment 1**

### **Soil Analytical Results**



Attachment 1 - Soil Analytical Results

Helia Project No: 20220134  
Urban Land Developments  
Soil Classification  
124 Hopetoun Park Road  
Hopetoun Park, VIC 3340

|                                                          |       |      | Sample Code                           |                                       |                                                          |                                          | EM2211061033 | EM2211061036 | EM2311383007 | EM2311383012 |
|----------------------------------------------------------|-------|------|---------------------------------------|---------------------------------------|----------------------------------------------------------|------------------------------------------|--------------|--------------|--------------|--------------|
|                                                          |       |      | Field ID                              |                                       |                                                          |                                          | BH09 - 0.1   | BH10 - 0.1   | SP01-1       | SP01-6       |
|                                                          |       |      | Date                                  |                                       |                                                          |                                          | 9/06/2022    | 9/06/2022    | 22 Jun 2023  | 22 Jun 2023  |
|                                                          |       |      | Depth                                 |                                       |                                                          |                                          | 0.1          | 0.1          |              |              |
| Analyte                                                  | Unit  | LOR  | EPA Vic 1828.2 Category B upper limit | EPA Vic 1828.2 Category C upper limit | EPA Vic 1828.2 Category D / Industrial Waste upper limit | EPA Vic 1828.2 Fill material upper limit |              |              |              |              |
| <b>Acid Sulphate Soils</b>                               |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| pH (CaCl <sub>2</sub> )                                  | -     | 0.1  | *                                     | *                                     | *                                                        | *                                        | -            | -            | 6.8          | -            |
| <b>BTEX</b>                                              |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Naphthalene (VOC)                                        | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <1           | <1           | <1           | -            |
| Benzene                                                  | mg/kg | 0.2  | 16                                    | 4                                     | 4                                                        | 1                                        | <0.2         | <0.2         | <0.2         | -            |
| Toluene                                                  | mg/kg | 0.5  | 12,800                                | 3,200                                 | 3,200                                                    | *                                        | <0.5         | <0.5         | <0.5         | -            |
| Ethylbenzene                                             | mg/kg | 0.5  | 4,800                                 | 1,200                                 | 1,200                                                    | *                                        | <0.5         | <0.5         | <0.5         | -            |
| Xylene (m & p)                                           | mg/kg | 0.5  | *                                     | *                                     | *                                                        | *                                        | <0.5         | <0.5         | <0.5         | -            |
| Xylene (o)                                               | mg/kg | 0.5  | *                                     | *                                     | *                                                        | *                                        | <0.5         | <0.5         | <0.5         | -            |
| Xylene Total                                             | mg/kg | 0.5  | 9,600                                 | 2,400                                 | 2,400                                                    | *                                        | <0.5         | <0.5         | <0.5         | -            |
| Total BTEX                                               | mg/kg | 0.2  | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | -            | -            |
| <b>TRH</b>                                               |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| C <sub>6</sub> -C <sub>10</sub> Fraction                 | mg/kg | 10   | *                                     | *                                     | *                                                        | *                                        | <10          | <10          | <10          | -            |
| F1 (C <sub>6</sub> -C <sub>10</sub> minus BTEX)          | mg/kg | 10   | *                                     | *                                     | *                                                        | *                                        | <10          | <10          | <10          | -            |
| >C <sub>10</sub> -C <sub>16</sub> Fraction               | mg/kg | 50   | *                                     | *                                     | *                                                        | *                                        | 420          | 130          | <50          | -            |
| F2 (>C <sub>10</sub> -C <sub>16</sub> minus Naphthalene) | mg/kg | 50   | *                                     | *                                     | *                                                        | *                                        | 420          | 130          | <50          | -            |
| F3 (>C <sub>16</sub> -C <sub>34</sub> )                  | mg/kg | 100  | *                                     | *                                     | *                                                        | *                                        | 2,800        | 3,320        | 150          | -            |
| F4 (>C <sub>34</sub> -C <sub>40</sub> )                  | mg/kg | 100  | *                                     | *                                     | *                                                        | *                                        | 320          | 830          | <100         | -            |
| >C <sub>10</sub> -C <sub>40</sub> Fraction (Sum)         | mg/kg | 50   | *                                     | *                                     | *                                                        | *                                        | 3,540        | 4,280        | 150          | -            |
| <b>Phenols</b>                                           |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| 3&4-Methylphenol (m&p-cresol)                            | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <2           | -            | <1           | -            |
| 2,3,5,6-Tetrachlorophenol                                | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | -            | -            | <0.03        | -            |
| 2,4,5-Trichlorophenol                                    | mg/kg | 0.05 | 64,000                                | 16,000                                | 16,000                                                   | *                                        | <1.2         | -            | <0.05        | -            |
| 2,4,6-Trichlorophenol                                    | mg/kg | 0.05 | 320                                   | 80                                    | 80                                                       | *                                        | <1.2         | -            | <0.05        | -            |
| 2,4-Dichlorophenol                                       | mg/kg | 0.03 | 3,200                                 | 800                                   | 800                                                      | *                                        | <1.2         | -            | <0.03        | -            |
| 2,4-Dimethylphenol                                       | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <1           | -            |
| 2,4-Dinitrophenol                                        | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | -            | -            | <5           | -            |
| 2,6-Dichlorophenol                                       | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <0.03        | -            |
| 2,3,4,5 & 2,3,4,6-Tetrachlorophenol                      | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | -            | -            | <0.05        | -            |
| 2-Chlorophenol                                           | mg/kg | 0.03 | 4,800                                 | 1,200                                 | 1,200                                                    | *                                        | <1.2         | -            | <0.03        | -            |
| 2-Methylphenol                                           | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <1           | -            |
| 2-Nitrophenol                                            | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <1           | -            |
| 4,6-Dinitro-2-methylphenol                               | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | -            | -            | <5           | -            |
| 4,6-Dinitro-o-cyclohexyl phenol                          | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | -            | -            | <5           | -            |
| 4-chloro-3-methylphenol                                  | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <0.03        | -            |
| 4-Nitrophenol                                            | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | -            | -            | <5           | -            |
| Pentachlorophenol                                        | mg/kg | 0.2  | *                                     | *                                     | *                                                        | *                                        | <2           | -            | <0.2         | -            |
| Picloram                                                 | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Phenol                                                   | mg/kg | 1    | *                                     | *                                     | *                                                        | *                                        | <1.2         | -            | <1           | -            |
| Phenols (halogenated) EPAVic                             | mg/kg | 0.03 | *                                     | *                                     | *                                                        | 1 <sup>#2</sup>                          | -            | -            | <0.03        | -            |
| Phenols (non-halogenated) EPAVic                         | mg/kg | 1    | 2,200 <sup>#1</sup>                   | 560 <sup>#1</sup>                     | 560 <sup>#1</sup>                                        | 60 <sup>#3</sup>                         | -            | -            | <1           | -            |
| <b>Organophosphorous Pesticides</b>                      |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Azinophos methyl                                         | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Bromophos-ethyl                                          | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Carbophenothion                                          | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Chlorfenvinphos                                          | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Chlorpyrifos                                             | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Chlorpyrifos-methyl                                      | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Diazinon                                                 | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Dichlorvos                                               | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Dimethoate                                               | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Ethion                                                   | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Fenthion                                                 | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Malathion                                                | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Methyl parathion                                         | mg/kg | 0.2  | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | -            | -            |
| Monocrotophos                                            | mg/kg | 0.2  | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | -            | -            |
| Prothiofos                                               | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |

**Comments**  
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Attachment 1 - Soil Analytical Results

Helia Project No: 20220134  
Urban Land Developments  
Soil Classification  
124 Hopetoun Park Road  
Hopetoun Park, VIC 3340

|                                              |       |      | Sample Code                           |                                       |                                                          |                                          | EM2211061033 | EM2211061036 | EM2311383007 | EM2311383012 |
|----------------------------------------------|-------|------|---------------------------------------|---------------------------------------|----------------------------------------------------------|------------------------------------------|--------------|--------------|--------------|--------------|
|                                              |       |      | Field ID                              |                                       |                                                          |                                          | BH09 - 0.1   | BH10 - 0.1   | SP01-1       | SP01-6       |
|                                              |       |      | Date                                  |                                       |                                                          |                                          | 9/06/2022    | 9/06/2022    | 22 Jun 2023  | 22 Jun 2023  |
|                                              |       |      | Depth                                 |                                       |                                                          |                                          | 0.1          | 0.1          |              |              |
| Analyte                                      | Unit  | LOR  | EPA Vic 1828.2 Category B upper limit | EPA Vic 1828.2 Category C upper limit | EPA Vic 1828.2 Category D / Industrial Waste upper limit | EPA Vic 1828.2 Fill material upper limit |              |              |              |              |
| Pesticides                                   |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Bifenthrin                                   | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | -            | -            | -            |
| Demeton-S-methyl                             | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Fenamiphos                                   | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Mirex                                        | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | -            | -            | -            |
| Parathion                                    | mg/kg | 0.2  | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | -            | -            |
| Pirimphos-ethyl                              | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Chlorinated Hydrocarbons                     |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Chlorinated hydrocarbons EPAVic              | mg/kg | 0.01 | *                                     | *                                     | *                                                        | 1 <sup>#4</sup>                          | -            | -            | <0.01        | -            |
| 1,1,1,2-tetrachloroethane                    | mg/kg | 0.01 | 1,600                                 | 400                                   | 400                                                      | *                                        | -            | -            | <0.01        | -            |
| 1,1,1-trichloroethane                        | mg/kg | 0.01 | 4,800                                 | 1,200                                 | 1,200                                                    | *                                        | -            | -            | <0.01        | -            |
| 1,1,2,2-tetrachloroethane                    | mg/kg | 0.02 | 210                                   | 52                                    | 52                                                       | *                                        | -            | -            | <0.02        | -            |
| 1,1,2-trichloroethane                        | mg/kg | 0.04 | 190                                   | 48                                    | 48                                                       | *                                        | -            | -            | <0.04        | -            |
| 1,1-dichloroethene                           | mg/kg | 0.01 | 480                                   | 120                                   | 120                                                      | *                                        | -            | -            | <0.01        | -            |
| 1,2-dichloroethane                           | mg/kg | 0.02 | 48                                    | 12                                    | 12                                                       | *                                        | -            | -            | <0.02        | -            |
| Carbon tetrachloride                         | mg/kg | 0.01 | 48                                    | 12                                    | 12                                                       | *                                        | -            | -            | <0.01        | -            |
| Chloroform                                   | mg/kg | 0.02 | 960                                   | 240                                   | 240                                                      | *                                        | -            | -            | <0.02        | -            |
| cis-1,2-dichloroethene                       | mg/kg | 0.01 | *                                     | *                                     | *                                                        | *                                        | -            | -            | <0.01        | -            |
| Dichloromethane                              | mg/kg | 0.4  | 64                                    | 16                                    | 16                                                       | *                                        | -            | -            | <0.4         | -            |
| Hexachlorobutadiene                          | mg/kg | 0.02 | 11                                    | 2.8                                   | 2.8                                                      | *                                        | -            | -            | <0.02        | -            |
| Trichloroethene                              | mg/kg | 0.02 | 80                                    | 20                                    | 20                                                       | *                                        | -            | -            | <0.02        | -            |
| Tetrachloroethene                            | mg/kg | 0.02 | 800                                   | 200                                   | 200                                                      | *                                        | -            | -            | <0.02        | -            |
| trans-1,2-dichloroethene                     | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | -            | -            | <0.02        | -            |
| Vinyl chloride                               | mg/kg | 0.02 | 4.8                                   | 1.2                                   | 1.2                                                      | *                                        | -            | -            | <0.02        | -            |
| Halogenated Benzenes                         |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| 1,2,4-trichlorobenzene                       | mg/kg | 0.01 | *                                     | *                                     | *                                                        | *                                        | -            | -            | <0.01        | -            |
| 1,2-dichlorobenzene                          | mg/kg | 0.02 | 24,000                                | 6,000                                 | 6,000                                                    | *                                        | -            | -            | <0.02        | -            |
| 1,4-dichlorobenzene                          | mg/kg | 0.02 | 640                                   | 160                                   | 160                                                      | *                                        | -            | -            | <0.02        | -            |
| Chlorobenzene                                | mg/kg | 0.02 | 4,800                                 | 1,200                                 | 1,200                                                    | *                                        | -            | -            | <0.02        | -            |
| Hexachlorobenzene                            | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Herbicides                                   |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| 2,4,5-Trichlorophenoxy Acetic Acid           | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| 2,4,5-TP (Silvex)                            | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Hedonal                                      | mg/kg | 0.02 | 480                                   | 120                                   | 120                                                      | *                                        | <0.02        | -            | -            | -            |
| 2,4-Dichlorprop                              | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| 4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB) | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| 4-Chlorophenoxy acetic acid                  | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Atrazine                                     | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | -            | -            | -            |
| Clopyralid                                   | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Dicamba                                      | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Dinoseb                                      | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | -            | -            | <5           | -            |
| Fluroxypyr                                   | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| 2-Methyl-4-chlorophenoxyacetic acid          | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| 2-Methyl-4-Chlorophenoxy Butanoic Acid       | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Mecoprop                                     | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Triclopyr                                    | mg/kg | 0.02 | *                                     | *                                     | *                                                        | *                                        | <0.02        | -            | -            | -            |
| Inorganics                                   |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Moisture Content                             | %     | 0.1  | *                                     | *                                     | *                                                        | *                                        | -            | -            | 9.9          | 18.1         |
| Cyanide Total                                | mg/kg | 1    | 10,000                                | 2,500                                 | 2,500                                                    | 50                                       | -            | -            | <1           | -            |
| Fluoride                                     | mg/kg | 40   | 40,000                                | 10,000                                | 10,000                                                   | 450                                      | -            | -            | 180          | -            |
| MAH                                          |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Monocyclic aromatic hydrocarbons EPAVic      | mg/kg | 0.2  | *                                     | *                                     | *                                                        | 7 <sup>#5</sup>                          | -            | -            | <0.2         | -            |
| Styrene                                      | mg/kg | 0.5  | 480                                   | 120                                   | 120                                                      | *                                        | -            | -            | <0.5         | -            |

Comments

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Attachment 1 - Soil Analytical Results

Helia Project No: 20220134  
Urban Land Developments  
Soil Classification  
124 Hopetoun Park Road  
Hopetoun Park, VIC 3340

|                                  |       |      | Sample Code                           |                                       |                                                          |                                          | EM2211061033 | EM2211061036 | EM2311383007 | EM2311383012 |
|----------------------------------|-------|------|---------------------------------------|---------------------------------------|----------------------------------------------------------|------------------------------------------|--------------|--------------|--------------|--------------|
|                                  |       |      | Field ID                              |                                       |                                                          |                                          | BH09 - 0.1   | BH10 - 0.1   | SP01-1       | SP01-6       |
|                                  |       |      | Date                                  |                                       |                                                          |                                          | 9/06/2022    | 9/06/2022    | 22 Jun 2023  | 22 Jun 2023  |
|                                  |       |      | Depth                                 |                                       |                                                          |                                          | 0.1          | 0.1          |              |              |
| Analyte                          | Unit  | LOR  | EPA Vic 1828.2 Category B upper limit | EPA Vic 1828.2 Category C upper limit | EPA Vic 1828.2 Category D / Industrial Waste upper limit | EPA Vic 1828.2 Fill material upper limit |              |              |              |              |
| Particulates                     |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Organic Matter                   | %     | 0.5  | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Metals                           |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Arsenic                          | mg/kg | 5    | 2,000                                 | 500                                   | 500                                                      | 20                                       | <5           | 6            | 6            | 9            |
| Barium                           | mg/kg | 10   | 25,000                                | 6,250                                 | 6,250                                                    | *                                        | 30           | -            | -            | 80           |
| Beryllium                        | mg/kg | 1    | 400                                   | 100                                   | 100                                                      | *                                        | <1           | -            | -            | 2            |
| Boron                            | mg/kg | 50   | 60,000                                | 15,000                                | 15,000                                                   | *                                        | <50          | -            | -            | <50          |
| Cadmium                          | mg/kg | 1    | 400                                   | 100                                   | 100                                                      | 3                                        | <1           | <1           | <1           | <1           |
| Chromium (hexavalent)            | mg/kg | 0.5  | 2,000                                 | 500                                   | 500                                                      | 1                                        | <0.5         | -            | <0.5         | -            |
| Chromium (III+VI)                | mg/kg | 2    | *                                     | *                                     | *                                                        | *                                        | 10           | 11           | -            | 37           |
| Cobalt                           | mg/kg | 2    | *                                     | *                                     | *                                                        | *                                        | 3            | -            | -            | 18           |
| Copper                           | mg/kg | 5    | 20,000                                | 5,000                                 | 5,000                                                    | 100                                      | 9            | 12           | 13           | 16           |
| Iron                             | %     |      | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Lead                             | mg/kg | 5    | 6,000                                 | 1,500                                 | 1,500                                                    | 300                                      | 32           | 52           | 33           | 15           |
| Manganese                        | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | 91           | -            | -            | 212          |
| Mercury                          | mg/kg | 0.1  | 300                                   | 75                                    | 75                                                       | 1                                        | <0.1         | <0.1         | <0.1         | <0.1         |
| Molybdenum                       | mg/kg | 2    | 4,000                                 | 1,000                                 | 1,000                                                    | 40                                       | -            | -            | <2           | -            |
| Nickel                           | mg/kg | 2    | 12,000                                | 3,000                                 | 3,000                                                    | 60                                       | 6            | 7            | 19           | 37           |
| Selenium                         | mg/kg | 5    | 40,000                                | 10,000                                | 10,000                                                   | 10                                       | <5           | -            | <5           | <5           |
| Silver                           | mg/kg | 2    | 720                                   | 180                                   | 180                                                      | 10                                       | -            | -            | <2           | -            |
| Tin                              | mg/kg | 5    | *                                     | *                                     | *                                                        | 50                                       | -            | -            | <5           | -            |
| Vanadium                         | mg/kg | 5    | *                                     | *                                     | *                                                        | *                                        | 24           | -            | -            | 71           |
| Zinc                             | mg/kg | 5    | 140,000                               | 35,000                                | 35,000                                                   | 200                                      | 175          | 107          | 331          | 48           |
| Organic                          |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Total Organic Carbon             | %     |      | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Organochlorine Pesticides        |       |      |                                       |                                       |                                                          |                                          |              |              |              |              |
| Organochlorine pesticides EPAVic | mg/kg | 0.03 | *                                     | *                                     | *                                                        | 1 <sup>#6</sup>                          | -            | -            | <0.03        | -            |
| 4,4-DDE                          | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.05        | -            |
| a-BHC                            | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Aldrin                           | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Aldrin + Dieldrin                | mg/kg | 0.05 | 4.8                                   | 1.2                                   | 1.2                                                      | *                                        | <0.05        | 0.56         | -            | -            |
| b-BHC                            | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Chlordane                        | mg/kg | 0.03 | 16                                    | 4                                     | 4                                                        | *                                        | -            | <0.05        | <0.03        | -            |
| Chlordane (cis)                  | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Chlordane (trans)                | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| d-BHC                            | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| DDD                              | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.05        | -            |
| DDT                              | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | <0.05        | -            |
| DDT+DDE+DDD                      | mg/kg | 0.05 | 50                                    | 50                                    | 50                                                       | *                                        | <0.05        | <0.05        | -            | -            |
| Dieldrin                         | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | 0.56         | <0.03        | -            |
| Endosulfan                       | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| Endosulfan I                     | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Endosulfan II                    | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Endosulfan sulphate              | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Endrin                           | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Endrin aldehyde                  | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Endrin ketone                    | mg/kg | 0.05 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | -            | -            |
| g-BHC (Lindane)                  | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Heptachlor                       | mg/kg | 0.03 | 4.8                                   | 1.2                                   | 1.2                                                      | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Heptachlor epoxide               | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.05        | <0.05        | <0.03        | -            |
| Methoxychlor                     | mg/kg | 0.03 | *                                     | *                                     | *                                                        | *                                        | <0.2         | <0.2         | <0.03        | -            |
| Toxaphene                        | mg/kg | 2    | *                                     | *                                     | *                                                        | *                                        | <2           | -            | -            | -            |

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Soil Classification  
124 Hopetoun Park Road  
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|                                                 |          |     | Sample Code                           |                                       |                                                          |                                          | EM2211061033 | EM2211061036 | EM2311383007 | EM2311383012 |
|-------------------------------------------------|----------|-----|---------------------------------------|---------------------------------------|----------------------------------------------------------|------------------------------------------|--------------|--------------|--------------|--------------|
|                                                 |          |     | Field ID                              |                                       |                                                          |                                          | BH09 - 0.1   | BH10 - 0.1   | SP01-1       | SP01-6       |
|                                                 |          |     | Date                                  |                                       |                                                          |                                          | 9/06/2022    | 9/06/2022    | 22 Jun 2023  | 22 Jun 2023  |
|                                                 |          |     | Depth                                 |                                       |                                                          |                                          | 0.1          | 0.1          |              |              |
| Analyte                                         | Unit     | LOR | EPA Vic 1828.2 Category B upper limit | EPA Vic 1828.2 Category C upper limit | EPA Vic 1828.2 Category D / Industrial Waste upper limit | EPA Vic 1828.2 Fill material upper limit |              |              |              |              |
| Inorganics                                      |          |     |                                       |                                       |                                                          |                                          |              |              |              |              |
| Exchangeable Calcium Percent                    | %        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Magnesium Percent                  | %        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Potassium Percent                  | %        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Sodium Percent                     | %        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Magnesium/Potassium Ratio                       | -        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Moisture Content                                | %        | 1   | *                                     | *                                     | *                                                        | *                                        | 2.6          | 3.2          | -            | -            |
| Exchangeable Calcium                            | meq/100g | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Magnesium                          | meq/100g | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Potassium                          | meq/100g | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Exchangeable Sodium                             | meq/100g | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Cation Exchange Capacity                        | meq/100g | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Cyanide Total                                   | mg/kg    | 1   | 10,000                                | 2,500                                 | 2,500                                                    | 50                                       | -            | -            | -            | -            |
| Electrical Conductivity (Lab)                   | µS/cm    | 1   | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Calcium/Magnesium Ratio                         | -        | 0.2 | *                                     | *                                     | *                                                        | *                                        | -            | -            | -            | -            |
| Fluoride                                        | mg/kg    | 40  | 40,000                                | 10,000                                | 10,000                                                   | 450                                      | -            | -            | -            | -            |
| pH (Lab)                                        | -        | 0.1 | 2-12.5                                | *                                     | 4-10                                                     | 4-10                                     | -            | -            | -            | -            |
| PAH                                             |          |     |                                       |                                       |                                                          |                                          |              |              |              |              |
| Benzo(b+j+k)fluoranthene                        | mg/kg    | 1   | *                                     | *                                     | *                                                        | *                                        | -            | -            | <1.0         | -            |
| Acenaphthene                                    | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Acenaphthylene                                  | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Anthracene                                      | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Benzo(a)anthracene                              | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Benzo(a) pyrene                                 | mg/kg    | 0.5 | 160                                   | 40                                    | 20                                                       | 1                                        | <1.2         | <0.5         | <0.5         | -            |
| Benzo(g,h,i)perylene                            | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Benzo(k)fluoranthene                            | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | -            | -            |
| Chrysene                                        | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Dibenz(a,h)anthracene                           | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Fluoranthene                                    | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Fluorene                                        | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Indeno(1,2,3-c,d)pyrene                         | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Naphthalene                                     | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Phenanthrene                                    | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Pyrene                                          | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <1.2         | <0.5         | <0.5         | -            |
| Benzo(a)pyrene TEQ calc (Zero)                  | mg/kg    | 0.5 | *                                     | *                                     | *                                                        | *                                        | <0.5         | <0.5         | <0.5         | -            |
| PAHs (Vic EPA List)                             | mg/kg    | 0.5 | 400 <sup>#1</sup>                     | 100 <sup>#1</sup>                     | 50 <sup>#1</sup>                                         | 20 <sup>#7</sup>                         | <0.7         | <0.5         | <0.5         | -            |
| PCBs                                            |          |     |                                       |                                       |                                                          |                                          |              |              |              |              |
| PCBs (Sum of total)                             | mg/kg    | 0.1 | 6                                     | 50                                    | 2                                                        | 2                                        | <0.1         | -            | <0.1         | -            |
| Cyanides                                        |          |     |                                       |                                       |                                                          |                                          |              |              |              |              |
| Cyanide (WAD)                                   | mg/kg    | 1   | *                                     | *                                     | *                                                        | *                                        | <1           | -            | -            | -            |
| TPH                                             |          |     |                                       |                                       |                                                          |                                          |              |              |              |              |
| C <sub>6</sub> -C <sub>9</sub> Fraction         | mg/kg    | 10  | 2,600                                 | 650                                   | 325                                                      | 100                                      | <10          | <10          | <10          | -            |
| C <sub>10</sub> -C <sub>14</sub> Fraction       | mg/kg    | 50  | *                                     | *                                     | *                                                        | *                                        | 130          | <50          | <50          | -            |
| C <sub>15</sub> -C <sub>28</sub> Fraction       | mg/kg    | 100 | *                                     | *                                     | *                                                        | *                                        | 2,000        | 2,050        | <100         | -            |
| C <sub>29</sub> -C <sub>36</sub> Fraction       | mg/kg    | 100 | *                                     | *                                     | *                                                        | *                                        | 1,160        | 1,570        | <100         | -            |
| C <sub>10</sub> -C <sub>36</sub> Fraction (Sum) | mg/kg    | 50  | 40,000                                | 10,000                                | 5,000                                                    | 1,000                                    | 3,290        | 3,620        | <50          | -            |

Comments

- #1 Please refer to 1828.2 Table 2 for a list of sum constituents.  
#2 Please refer to 1828.2 Table 3 Note 1 for a list of sum constituents.  
#3 Please refer to 1828.2 Table 3 Note 2 for a list of sum constituents.  
#4 Please refer to 1828.2 Table 3 Note 5 for a list of sum constituents.  
#5 Please refer to 1828.2 Table 3 Note 3 for a list of sum constituents.  
#6 Please refer to 1828.2 Table 3 Note 6 for a list of sum constituents.  
#7 Please refer to 1828.2 Table 3 Note 4 for a list of sum constituents.

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## **Attachment 2**

### **NATA Laboratory Transcripts**



## CERTIFICATE OF ANALYSIS

**Work Order** : EM2311383  
**Client** : HELIA EHS PTY LTD  
**Contact** : ELLA DENTON  
**Address** : 423 CITY ROAD  
SOUTH MELBOURNE VIC 3205  
**Telephone** : ----  
**Project** : 20220134  
**Order number** : 20220134  
**C-O-C number** : ----  
**Sampler** : Ella Denton/ Garry Masur  
**Site** : Hopetoun Park  
**Quote number** : MEBQ/108/21 Primary Work  
**No. of samples received** : 18  
**No. of samples analysed** : 10

**Page** : 1 of 11  
**Laboratory** : Environmental Division Melbourne  
**Contact** : Celline Tamin  
**Address** : 4 Westall Rd Springvale VIC Australia 3171  
**Telephone** : +61-3-8549 9600  
**Date Samples Received** : 22-Jun-2023 13:30  
**Date Analysis Commenced** : 23-Jun-2023  
**Issue Date** : 03-Jul-2023 15:01



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                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |
| Sanjay Parekh   | LCMS Coordinator       | Melbourne Organics, Springvale, VIC   |



## General Comments

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

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

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

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

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

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

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

LOR = Limit of reporting

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

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-UT: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EP071: EM2311363\_010 Higher than expected matrix spike recovery due to sample matrix. Confirmed by re-extraction and re-analysis.





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |                   |     |       | VAL01-1           | VAL01-2           | VAL01-3           | VAL01-4           | VAL01-5           |
|------------------------------------------------------------------------|-------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |                   |     |       | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 |
| Compound                                                               | CAS Number        | LOR | Unit  | EM2311383-001     | EM2311383-002     | EM2311383-003     | EM2311383-004     | EM2311383-005     |
|                                                                        |                   |     |       | Result            | Result            | Result            | Result            | Result            |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>                     |                   |     |       |                   |                   |                   |                   |                   |
| Moisture Content                                                       | ----              | 0.1 | %     | 18.0              | 24.4              | 14.8              | 5.0               | 4.2               |
| <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              | 110               | <100              | <100              |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg | <50               | <50               | 110               | <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              | 160               | <100              | <100              |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg | <100              | <100              | <100              | <100              | <100              |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg | <50               | <50               | 160               | <50               | <50               |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg | <50               | <50               | <50               | <50               | <50               |
| <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>EP080S: TPH(V)/BTEX Surrogates</b>                                  |                   |     |       |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                                  | 17060-07-0        | 0.2 | %     | 91.4              | 87.1              | 94.1              | 97.3              | 96.0              |
| Toluene-D8                                                             | 2037-26-5         | 0.2 | %     | 84.4              | 81.3              | 88.6              | 90.4              | 86.7              |
| 4-Bromofluorobenzene                                                   | 460-00-4          | 0.2 | %     | 86.0              | 79.6              | 86.6              | 89.4              | 84.4              |

| Sub-Matrix: SOIL<br>(Matrix: SOIL)           |            |     |         | Sample ID         | VAL01-6           | SP01-1            | SP01-6            | FD01              | ---- |
|----------------------------------------------|------------|-----|---------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Sampling date / time                         |            |     |         | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ---- |
| Compound                                     | CAS Number | LOR | Unit    | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | -----             |      |
|                                              |            |     |         | Result            | Result            | Result            | Result            | ----              |      |
| EA001: pH in soil using 0.01M CaCl extract   |            |     |         |                   |                   |                   |                   |                   |      |
| pH (CaCl2)                                   | ----       | 0.1 | pH Unit | ----              | 6.8               | ----              | ----              | ----              |      |
| EA055: Moisture Content (Dried @ 105-110°C)  |            |     |         |                   |                   |                   |                   |                   |      |
| Moisture Content                             | ----       | 0.1 | %       | 11.6              | ----              | ----              | 11.5              | ----              |      |
| Moisture Content                             | ----       | 1.0 | %       | ----              | 9.9               | 18.1              | ----              | ----              |      |
| EG005(ED093)T: Total Metals by ICP-AES       |            |     |         |                   |                   |                   |                   |                   |      |
| Arsenic                                      | 7440-38-2  | 5   | mg/kg   | ----              | 6                 | 9                 | ----              | ----              |      |
| Barium                                       | 7440-39-3  | 10  | mg/kg   | ----              | ----              | 80                | ----              | ----              |      |
| Beryllium                                    | 7440-41-7  | 1   | mg/kg   | ----              | ----              | 2                 | ----              | ----              |      |
| Boron                                        | 7440-42-8  | 50  | mg/kg   | ----              | ----              | <50               | ----              | ----              |      |
| Cadmium                                      | 7440-43-9  | 1   | mg/kg   | ----              | <1                | <1                | ----              | ----              |      |
| Chromium                                     | 7440-47-3  | 2   | mg/kg   | ----              | ----              | 37                | ----              | ----              |      |
| Cobalt                                       | 7440-48-4  | 2   | mg/kg   | ----              | ----              | 18                | ----              | ----              |      |
| Copper                                       | 7440-50-8  | 5   | mg/kg   | ----              | 13                | 16                | ----              | ----              |      |
| Lead                                         | 7439-92-1  | 5   | mg/kg   | ----              | 33                | 15                | ----              | ----              |      |
| Manganese                                    | 7439-96-5  | 5   | mg/kg   | ----              | ----              | 212               | ----              | ----              |      |
| Molybdenum                                   | 7439-98-7  | 2   | mg/kg   | ----              | <2                | ----              | ----              | ----              |      |
| Nickel                                       | 7440-02-0  | 2   | mg/kg   | ----              | 19                | 37                | ----              | ----              |      |
| Selenium                                     | 7782-49-2  | 5   | mg/kg   | ----              | <5                | <5                | ----              | ----              |      |
| Silver                                       | 7440-22-4  | 2   | mg/kg   | ----              | <2                | ----              | ----              | ----              |      |
| Tin                                          | 7440-31-5  | 5   | mg/kg   | ----              | <5                | ----              | ----              | ----              |      |
| Vanadium                                     | 7440-62-2  | 5   | mg/kg   | ----              | ----              | 71                | ----              | ----              |      |
| Zinc                                         | 7440-66-6  | 5   | mg/kg   | ----              | 331               | 48                | ----              | ----              |      |
| EG035T: Total Recoverable Mercury by FIMS    |            |     |         |                   |                   |                   |                   |                   |      |
| Mercury                                      | 7439-97-6  | 0.1 | mg/kg   | ----              | <0.1              | <0.1              | ----              | ----              |      |
| EG048: Hexavalent Chromium (Alkaline Digest) |            |     |         |                   |                   |                   |                   |                   |      |
| Hexavalent Chromium                          | 18540-29-9 | 0.5 | mg/kg   | ----              | <0.5              | ----              | ----              | ----              |      |
| EK026SF: Total CN by Segmented Flow Analyser |            |     |         |                   |                   |                   |                   |                   |      |
| Total Cyanide                                | 57-12-5    | 1   | mg/kg   | ----              | <1                | ----              | ----              | ----              |      |
| EK040T: Fluoride Total                       |            |     |         |                   |                   |                   |                   |                   |      |
| Fluoride                                     | 16984-48-8 | 40  | mg/kg   | ----              | 180               | ----              | ----              | ----              |      |
| EP066: Polychlorinated Biphenyls (PCB)       |            |     |         |                   |                   |                   |                   |                   |      |
| Total Polychlorinated biphenyls              | ----       | 0.1 | mg/kg   | ----              | <0.1              | ----              | ----              | ----              |      |
| EP074A: Monocyclic Aromatic Hydrocarbons     |            |     |         |                   |                   |                   |                   |                   |      |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |                   |      |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|-------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                        |                   |      |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                    | CAS Number        | LOR  | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                             |                   |      |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons - Continued</b> |                   |      |       |           |                   |                   |                   |                   |       |
| Benzene                                                     | 71-43-2           | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| Toluene                                                     | 108-88-3          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Ethylbenzene                                                | 100-41-4          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| meta- & para-Xylene                                         | 108-38-3 106-42-3 | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Styrene                                                     | 100-42-5          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| ortho-Xylene                                                | 95-47-6           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| ^ Sum of monocyclic aromatic hydrocarbons                   | ----              | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| ^ Total Xylenes                                             | ----              | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| <b>EP074H: Naphthalene</b>                                  |                   |      |       |           |                   |                   |                   |                   |       |
| Naphthalene                                                 | 91-20-3           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| <b>EP074I: Volatile Halogenated Compounds</b>               |                   |      |       |           |                   |                   |                   |                   |       |
| Vinyl chloride                                              | 75-01-4           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1-Dichloroethene                                          | 75-35-4           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Methylene chloride                                          | 75-09-2           | 0.4  | mg/kg |           | ----              | <0.4              | ----              | ----              | ----  |
| trans-1,2-Dichloroethene                                    | 156-60-5          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| cis-1,2-Dichloroethene                                      | 156-59-2          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Chloroform                                                  | 67-66-3           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,1-Trichloroethane                                       | 71-55-6           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| Carbon Tetrachloride                                        | 56-23-5           | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| 1,2-Dichloroethane                                          | 107-06-2          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Trichloroethene                                             | 79-01-6           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,2-Trichloroethane                                       | 79-00-5           | 0.04 | mg/kg |           | ----              | <0.04             | ----              | ----              | ----  |
| Tetrachloroethene                                           | 127-18-4          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,1,1,2-Tetrachloroethane                                   | 630-20-6          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| 1,1,2,2-Tetrachloroethane                                   | 79-34-5           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Hexachlorobutadiene                                         | 87-68-3           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| Chlorobenzene                                               | 108-90-7          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,4-Dichlorobenzene                                         | 106-46-7          | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,2-Dichlorobenzene                                         | 95-50-1           | 0.02 | mg/kg |           | ----              | <0.02             | ----              | ----              | ----  |
| 1,2,4-Trichlorobenzene                                      | 120-82-1          | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| ^ Sum of volatile chlorinated hydrocarbons                  | ----              | 0.01 | mg/kg |           | ----              | <0.01             | ----              | ----              | ----  |
| <b>EP075A: Phenolic Compounds (Halogenated)</b>             |                   |      |       |           |                   |                   |                   |                   |       |
| 2-Chlorophenol                                              | 95-57-8           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |                   |      |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|-------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                        |                   |      |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                    | CAS Number        | LOR  | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                             |                   |      |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP075A: Phenolic Compounds (Halogenated) - Continued</b> |                   |      |       |           |                   |                   |                   |                   |       |
| 2,4-Dichlorophenol                                          | 120-83-2          | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,6-Dichlorophenol                                          | 87-65-0           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 4-Chloro-3-methylphenol                                     | 59-50-7           | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,4,5-Trichlorophenol                                       | 95-95-4           | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| 2,4,6-Trichlorophenol                                       | 88-06-2           | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| 2,3,5,6-Tetrachlorophenol                                   | 935-95-5          | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| 2,3,4,5 &<br>2,3,4,6-Tetrachlorophenol                      | 4901-51-3/58-90-2 | 0.05 | mg/kg |           | ----              | <0.05             | ----              | ----              | ----  |
| Pentachlorophenol                                           | 87-86-5           | 0.2  | mg/kg |           | ----              | <0.2              | ----              | ----              | ----  |
| ^ Sum of Phenols (halogenated)                              | ----              | 0.03 | mg/kg |           | ----              | <0.03             | ----              | ----              | ----  |
| <b>EP075A: Phenolic Compounds (Non-halogenated)</b>         |                   |      |       |           |                   |                   |                   |                   |       |
| Phenol                                                      | 108-95-2          | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2-Methylphenol                                              | 95-48-7           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 3- & 4-Methylphenol                                         | 1319-77-3         | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2-Nitrophenol                                               | 88-75-5           | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2,4-Dimethylphenol                                          | 105-67-9          | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| 2,4-Dinitrophenol                                           | 51-28-5           | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 4-Nitrophenol                                               | 100-02-7          | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 2-Methyl-4,6-dinitrophenol                                  | 8071-51-0         | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| Dinoseb                                                     | 88-85-7           | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| 2-Cyclohexyl-4,6-Dinitrophenol                              | 131-89-5          | 5    | mg/kg |           | ----              | <5                | ----              | ----              | ----  |
| ^ Sum of Phenols (non-halogenated)                          | ----              | 1    | mg/kg |           | ----              | <1                | ----              | ----              | ----  |
| <b>EP075B: Polynuclear Aromatic Hydrocarbons</b>            |                   |      |       |           |                   |                   |                   |                   |       |
| Naphthalene                                                 | 91-20-3           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Acenaphthene                                                | 83-32-9           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Acenaphthylene                                              | 208-96-8          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Fluorene                                                    | 86-73-7           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Phenanthrene                                                | 85-01-8           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Anthracene                                                  | 120-12-7          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Fluoranthene                                                | 206-44-0          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Pyrene                                                      | 129-00-0          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Benz(a)anthracene                                           | 56-55-3           | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |
| Chrysene                                                    | 218-01-9          | 0.5  | mg/kg |           | ----              | <0.5              | ----              | ----              | ----  |

|                                                       |                   |      |       |                   |                   |                   |                   |                   |      |
|-------------------------------------------------------|-------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Sub-Matrix: SOIL<br>(Matrix: SOIL)                    |                   |      |       | Sample ID         | VAL01-6           | SP01-1            | SP01-6            | FD01              | ---- |
| Sampling date / time                                  |                   |      |       | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ---- |
| Compound                                              | CAS Number        | LOR  | Unit  | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | -----             |      |
|                                                       |                   |      |       | Result            | Result            | Result            | Result            | ----              |      |
| EP075B: Polynuclear Aromatic Hydrocarbons - Continued |                   |      |       |                   |                   |                   |                   |                   |      |
| Benzo(b+j) & Benzo(k)fluoranthene                     | 205-99-2 207-08-9 | 1.0  | mg/kg | ----              | <1.0              | ----              | ----              | ----              |      |
| Benzo(a)pyrene                                        | 50-32-8           | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Indeno(1.2.3.cd)pyrene                                | 193-39-5          | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Dibenz(a.h)anthracene                                 | 53-70-3           | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| Benzo(g.h.i)perylene                                  | 191-24-2          | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Sum of polycyclic aromatic hydrocarbons             | -----             | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (zero)                           | -----             | 0.5  | mg/kg | ----              | <0.5              | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (half LOR)                       | -----             | 0.5  | mg/kg | ----              | 0.6               | ----              | ----              | ----              |      |
| ^ Benzo(a)pyrene TEQ (LOR)                            | -----             | 0.5  | mg/kg | ----              | 1.2               | ----              | ----              | ----              |      |
| EP075I: Organochlorine Pesticides                     |                   |      |       |                   |                   |                   |                   |                   |      |
| alpha-BHC                                             | 319-84-6          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Hexachlorobenzene (HCB)                               | 118-74-1          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| beta-BHC                                              | 319-85-7          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| gamma-BHC                                             | 58-89-9           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| delta-BHC                                             | 319-86-8          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Heptachlor                                            | 76-44-8           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Aldrin                                                | 309-00-2          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Heptachlor epoxide                                    | 1024-57-3         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| cis-Chlordane                                         | 5103-71-9         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| trans-Chlordane                                       | 5103-74-2         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endosulfan 1                                          | 959-98-8          | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDE                                              | 72-55-9           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Dieldrin                                              | 60-57-1           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endrin aldehyde                                       | 7421-93-4         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endrin                                                | 72-20-8           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| Endosulfan 2                                          | 33213-65-9        | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDD                                              | 72-54-8           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Endosulfan sulfate                                    | 1031-07-8         | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| 4,4`-DDT                                              | 50-29-3           | 0.05 | mg/kg | ----              | <0.05             | ----              | ----              | ----              |      |
| Methoxychlor                                          | 72-43-5           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| ^ Sum of organochlorine pesticides                    | -----             | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| ^ Chlordane                                           | 57-74-9           | 0.03 | mg/kg | ----              | <0.03             | ----              | ----              | ----              |      |
| EP080/071: Total Petroleum Hydrocarbons               |                   |      |       |                   |                   |                   |                   |                   |      |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                     |                   |     |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                                   |                   |     |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                               | CAS Number        | LOR | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                                        |                   |     |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons - Continued</b>             |                   |     |       |           |                   |                   |                   |                   |       |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg |           | <10               | ----              | ----              | <10               | ----  |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| C6 - C10 Fraction                                                      | C6_C10            | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg |           | ----              | <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               | ----  |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <b>140</b>        | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg |           | ----              | <b>150</b>        | ----              | ----              | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg |           | <100              | ----              | ----              | <100              | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg |           | ----              | <100              | ----              | ----              | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <b>140</b>        | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg |           | ----              | <b>150</b>        | ----              | ----              | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg |           | <50               | ----              | ----              | <50               | ----  |
| >C10 - C16 Fraction minus Naphthalene (F2)                             | ----              | 50  | mg/kg |           | ----              | <50               | ----              | ----              | ----  |
| C6 - C10 Fraction minus BTEX (F1)                                      | C6_C10-BTEX       | 10  | mg/kg |           | ----              | <10               | ----              | ----              | ----  |
| <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              | ----  |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                        |            |       |       | Sample ID | VAL01-6           | SP01-1            | SP01-6            | FD01              | ----  |
|---------------------------------------------------------------------------|------------|-------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------|
| Sampling date / time                                                      |            |       |       |           | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | 22-Jun-2023 00:00 | ----  |
| Compound                                                                  | CAS Number | LOR   | Unit  |           | EM2311383-006     | EM2311383-007     | EM2311383-012     | EM2311383-017     | ----- |
|                                                                           |            |       |       |           | Result            | Result            | Result            | Result            | ----  |
| <b>EP080: BTEXN - Continued</b>                                           |            |       |       |           |                   |                   |                   |                   |       |
| ^ 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>EP066S: PCB Surrogate</b>                                              |            |       |       |           |                   |                   |                   |                   |       |
| Decachlorobiphenyl                                                        | 2051-24-3  | 0.1   | %     |           | ----              | 85.8              | ----              | ----              | ----  |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                               |            |       |       |           |                   |                   |                   |                   |       |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 0.1   | %     |           | ----              | 98.0              | ----              | ----              | ----  |
| Toluene-D8                                                                | 2037-26-5  | 0.1   | %     |           | ----              | 100               | ----              | ----              | ----  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 0.1   | %     |           | ----              | 98.6              | ----              | ----              | ----  |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |       |       |           |                   |                   |                   |                   |       |
| Phenol-d6                                                                 | 13127-88-3 | 0.025 | %     |           | ----              | 81.7              | ----              | ----              | ----  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 0.025 | %     |           | ----              | 92.8              | ----              | ----              | ----  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 0.025 | %     |           | ----              | 81.5              | ----              | ----              | ----  |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |       |       |           |                   |                   |                   |                   |       |
| Nitrobenzene-D5                                                           | 4165-60-0  | 0.025 | %     |           | ----              | 80.1              | ----              | ----              | ----  |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 0.025 | %     |           | ----              | 80.8              | ----              | ----              | ----  |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 0.025 | %     |           | ----              | 86.8              | ----              | ----              | ----  |
| Anthracene-d10                                                            | 1719-06-8  | 0.025 | %     |           | ----              | 95.8              | ----              | ----              | ----  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 0.025 | %     |           | ----              | 95.6              | ----              | ----              | ----  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |       |       |           |                   |                   |                   |                   |       |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 0.2   | %     |           | 97.9              | ----              | ----              | 99.6              | ----  |
| Toluene-D8                                                                | 2037-26-5  | 0.2   | %     |           | 88.4              | ----              | ----              | 90.5              | ----  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 0.2   | %     |           | 87.5              | ----              | ----              | 88.8              | ----  |



## Analytical Results

|                                                                        |                   |     |           |                   |       |       |       |       |
|------------------------------------------------------------------------|-------------------|-----|-----------|-------------------|-------|-------|-------|-------|
| Sub-Matrix: WATER<br>(Matrix: WATER)                                   |                   |     | Sample ID | RB01              | ----  | ----  | ----  | ----  |
| Sampling date / time                                                   |                   |     |           | 22-Jun-2023 00:00 | ----  | ----  | ----  | ----  |
| Compound                                                               | CAS Number        | LOR | Unit      | EM2311383-018     | ----- | ----- | ----- | ----- |
| Result                                                                 |                   |     |           | ----              | ----  | ----  | ----  | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |           |                   |       |       |       |       |
| C6 - C9 Fraction                                                       | ----              | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| C10 - C14 Fraction                                                     | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| C15 - C28 Fraction                                                     | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| C29 - C36 Fraction                                                     | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | µg/L      | <50               | ----  | ----  | ----  | ----  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |                   |     |           |                   |       |       |       |       |
| C6 - C10 Fraction                                                      | C6_C10            | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 20  | µg/L      | <20               | ----  | ----  | ----  | ----  |
| >C10 - C16 Fraction                                                    | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| >C16 - C34 Fraction                                                    | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| >C34 - C40 Fraction                                                    | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 100 | µg/L      | <100              | ----  | ----  | ----  | ----  |
| <b>EP080: BTEXN</b>                                                    |                   |     |           |                   |       |       |       |       |
| Benzene                                                                | 71-43-2           | 1   | µg/L      | <1                | ----  | ----  | ----  | ----  |
| Toluene                                                                | 108-88-3          | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| Ethylbenzene                                                           | 100-41-4          | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| meta- & para-Xylene                                                    | 108-38-3 106-42-3 | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ortho-Xylene                                                           | 95-47-6           | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ^ Total Xylenes                                                        | ----              | 2   | µg/L      | <2                | ----  | ----  | ----  | ----  |
| ^ Sum of BTEX                                                          | ----              | 1   | µg/L      | <1                | ----  | ----  | ----  | ----  |
| Naphthalene                                                            | 91-20-3           | 5   | µg/L      | <5                | ----  | ----  | ----  | ----  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                  |                   |     |           |                   |       |       |       |       |
| 1,2-Dichloroethane-D4                                                  | 17060-07-0        | 2   | %         | 106               | ----  | ----  | ----  | ----  |
| Toluene-D8                                                             | 2037-26-5         | 2   | %         | 89.8              | ----  | ----  | ----  | ----  |
| 4-Bromofluorobenzene                                                   | 460-00-4          | 2   | %         | 95.6              | ----  | ----  | ----  | ----  |





## Surrogate Control Limits

| Sub-Matrix: SOIL                                                          |            | Recovery Limits (%) |      |
|---------------------------------------------------------------------------|------------|---------------------|------|
| Compound                                                                  | CAS Number | Low                 | High |
| <b>EP066S: PCB Surrogate</b>                                              |            |                     |      |
| Decachlorobiphenyl                                                        | 2051-24-3  | 41                  | 122  |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                               |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 59                  | 119  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 117  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 59                  | 123  |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |                     |      |
| Phenol-d6                                                                 | 13127-88-3 | 63                  | 134  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 60                  | 125  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 54                  | 129  |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |                     |      |
| Nitrobenzene-D5                                                           | 4165-60-0  | 63                  | 131  |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 61                  | 124  |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 69                  | 131  |
| Anthracene-d10                                                            | 1719-06-8  | 70                  | 133  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 59                  | 141  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 51                  | 125  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 125  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 56                  | 124  |
| Sub-Matrix: WATER                                                         |            | Recovery Limits (%) |      |
| Compound                                                                  | CAS Number | Low                 | High |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 73                  | 129  |
| Toluene-D8                                                                | 2037-26-5  | 70                  | 125  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 71                  | 129  |



## Automated Guideline Comparison Report

|                         |                                             |               |                                              |
|-------------------------|---------------------------------------------|---------------|----------------------------------------------|
| Work Order              | : <b>EM2311383</b>                          | Page          | : 1 of 24                                    |
| Client                  | : <b>HELIA EHS PTY LTD</b>                  | Laboratory    | : Environmental Division Melbourne           |
| Contact                 | : ELLA DENTON                               |               |                                              |
| Address                 | : 423 CITY ROAD<br>SOUTH MELBOURNE VIC 3205 | Address       | : 4 Westall Rd Springvale VIC Australia 3171 |
| E-mail                  | : ella.denton@heliaebs.au                   | E-mail        | : Celline.tamin@alsglobal.com                |
| Telephone               | : ----                                      | Telephone     | : +61-3-8549 9600                            |
| Facsimile               | : ----                                      | Facsimile     | : +61-3-8549 9626                            |
| Project                 | : 20220134                                  | Date Received | : 22-Jun-2023 13:30                          |
| Order number            | : 20220134                                  | Date Analysed | : 23-Jun-2023                                |
| C-O-C number            | : ----                                      | Date Issued   | : 03-Jul-2023 15:01                          |
| No. of samples received | : 18                                        |               |                                              |
| No. of samples analysed | : 10                                        | Quote number  | : MEBQ/108/21 Primary Work                   |

### General Comments

Only results in the 'Analytical Results' section have been compared to the guideline.

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



Summary of Thresholds Reached or Exceeded

EPA Victoria Publication1828.2 (2021) Table 3  
Table 3: Fill material contamination total concentration upper limit

| Client Sample ID | ALS Sample ID | Compound | Method | LOR | Limits      | Result    |
|------------------|---------------|----------|--------|-----|-------------|-----------|
| SP01-1           | EM2311383-007 | Zinc     | EG005T | 5   | < 200 mg/kg | 331 mg/kg |





**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID            |                      | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4 | VAL01-5 |    |
|----------------------------------------------------|--------------|------|-------|----------------------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|---------|---------|----|
| Sampling date/time                                 |              |      |       | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |         |         |    |
|                                                    |              |      |       | EM2311383-001 MU     | EM2311383-002 MU     |           |           | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |         |         |    |
| Compound                                           | Method       | LOR  | Unit  | Lower Limit          | Upper Limit          |           |           |                      |                      |                      |         |         |    |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| cis-1.2-Dichloroethene                             | EP074-UT     | 0.01 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Methylene chloride                                 | EP074-UT     | 0.4  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| trans-1.2-Dichloroethene                           | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP075I: Organochlorine Pesticides                  |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----                 | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----    |         |    |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----                 | 2600                 | <10       | --        | <10                  | --                   | <10                  | --      | <10     | -- |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----                 | 40000                | <50       |           | <50                  |                      | 110                  |         | <50     |    |
| EP080: BTEXN                                       |              |      |       |                      |                      |           |           |                      |                      |                      |         |         |    |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----                 | 16                   | <0.2      | --        | <0.2                 | --                   | <0.2                 | --      | <0.2    | -- |
| Toluene                                            | EP080        | 0.5  | mg/kg | ----                 | 12800                | <0.5      | --        | <0.5                 | --                   | <0.5                 | --      | <0.5    | -- |







**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID            | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5 |
|----------------------------------------------------|--------------|------|-------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|---------|
| Sampling date/time                                 |              |      |       | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |         |
| Compound                                           | Method       | LOR  | Unit  | EM2311383-001 MU     |           |           | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |         |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| 1.1-Dichloroethene                                 | EP074-UT     | 0.01 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| cis-1.2-Dichloroethene                             | EP074-UT     | 0.01 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Methylene chloride                                 | EP074-UT     | 0.4  | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| trans-1.2-Dichloroethene                           | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP075I: Organochlorine Pesticides                  |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----                 | ----      | ----      | ----                 | ----                 | ----                 | ----                 |         |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----                 | 650       | <10       | <10                  | <10                  | <10                  | <10                  |         |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----                 | 10000     | <50       | <50                  | 110                  | <50                  | <50                  |         |
| EP080: BTEXN                                       |              |      |       |                      |           |           |                      |                      |                      |                      |         |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----                 | 4         | <0.2      | <0.2                 | <0.2                 | <0.2                 | <0.2                 |         |





Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline        | Guideline        | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |
|--------------------------|--------|-----|-------|--------------------|----------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                          |        |     |       | Sampling date/time |                |                  |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-001 MU | EM2311383-002 MU | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |                      |                      |
| EP080: BTEXN - Continued |        |     |       |                    |                |                  |                  |                      |                      |                      |                      |                      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |





**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: <b>SOIL</b>                                   |               |            |             | Sample ID<br><i>Sampling date/time</i> |                | Guideline     | Guideline | VAL01-1              |    | VAL01-2              |    | VAL01-3              |    | VAL01-4              |    | VAL01-5              |  |
|-----------------------------------------------------------|---------------|------------|-------------|----------------------------------------|----------------|---------------|-----------|----------------------|----|----------------------|----|----------------------|----|----------------------|----|----------------------|--|
|                                                           |               |            |             |                                        |                |               |           | 22-Jun-2023<br>15:00 |    | 22-Jun-2023<br>15:00 |    | 22-Jun-2023<br>15:00 |    | 22-Jun-2023<br>15:00 |    | 22-Jun-2023<br>15:00 |  |
| <i>Compound</i>                                           | <i>Method</i> | <i>LOR</i> | <i>Unit</i> | Lower<br>Limit                         | Upper<br>Limit | EM2311383-001 | MU        | EM2311383-002        | MU | EM2311383-003        | MU | EM2311383-004        | MU | EM2311383-005        | MU |                      |  |
| <b>EP074I: Volatile Halogenated Compounds - Continued</b> |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| 1.1-Dichloroethene                                        | EP074-UT      | 0.01       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 1.2-Dichlorobenzene                                       | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 1.2-Dichloroethane                                        | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 1.4-Dichlorobenzene                                       | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Carbon Tetrachloride                                      | EP074-UT      | 0.01       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Chlorobenzene                                             | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Chloroform                                                | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| cis-1.2-Dichloroethene                                    | EP074-UT      | 0.01       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Hexachlorobutadiene                                       | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Methylene chloride                                        | EP074-UT      | 0.4        | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Tetrachloroethene                                         | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| trans-1.2-Dichloroethene                                  | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Trichloroethene                                           | EP074-UT      | 0.02       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| <b>EP075A: Phenolic Compounds (Halogenated)</b>           |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| 2.4.5-Trichlorophenol                                     | EP075-EM      | 0.05       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 2.4.6-Trichlorophenol                                     | EP075-EM      | 0.05       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 2.4-Dichlorophenol                                        | EP075-EM      | 0.03       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| 2-Chlorophenol                                            | EP075-EM      | 0.03       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| <b>EP075A: Phenolic Compounds (Non-halogenated)</b>       |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| Sum of Phenols (non-halogenated)                          | EP075-EM-SUM  | 1          | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| <b>EP075B: Polynuclear Aromatic Hydrocarbons</b>          |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| Benzo(a)pyrene                                            | EP075-EM      | 0.5        | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Sum of polycyclic aromatic hydrocarbons                   | EP075-EM-SUM  | 0.5        | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| <b>EP075I: Organochlorine Pesticides</b>                  |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| Chlordane                                                 | EP075-EM-SUM  | 0.03       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| Heptachlor                                                | EP075-EM      | 0.03       | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>            |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| C10 - C36 Fraction (sum)                                  | EP071-EM      | 50         | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| C6 - C9 Fraction                                          | EP074-UT      | 10         | mg/kg       | ----                                   | ----           | ----          |           | ----                 |    | ----                 |    | ----                 |    | ----                 |    |                      |  |
| C6 - C9 Fraction                                          | EP080         | 10         | mg/kg       | ----                                   | 325            | <10           | --        | <10                  | -- | <10                  | -- | <10                  | -- | <10                  | -- |                      |  |
| C10 - C36 Fraction (sum)                                  | EP071         | 50         | mg/kg       | ----                                   | 5000           | <50           |           | <50                  |    | 110                  |    | <50                  |    | <50                  |    |                      |  |
| <b>EP080: BTEXN</b>                                       |               |            |             |                                        |                |               |           |                      |    |                      |    |                      |    |                      |    |                      |  |
| Benzene                                                   | EP080         | 0.2        | mg/kg       | ----                                   | 4              | <0.2          | --        | <0.2                 | -- | <0.2                 | -- | <0.2                 | -- | <0.2                 | -- |                      |  |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline        | Guideline        | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |
|--------------------------|--------|-----|-------|--------------------|----------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                          |        |     |       | Sampling date/time |                |                  |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-001 MU | EM2311383-002 MU | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU     |                      |                      |
| EP080: BTEXN - Continued |        |     |       |                    |                |                  |                  |                      |                      |                      |                      |                      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --          | <0.5 --          | <0.5 --              | <0.5 --              | <0.5 --              |                      |                      |





Fill material contamination total concentration Upper Limit  
Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit

| Sub-Matrix: SOIL                        |              |      |       | Sample ID          | Guideline | Guideline | VAL01-1              | VAL01-2              | VAL01-3              | VAL01-4              | VAL01-5              |                  |
|-----------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                         |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 |                  |
| Compound                                | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-001 MU     | EM2311383-002 MU     | EM2311383-003 MU     | EM2311383-004 MU     | EM2311383-005 MU |
| EP075I: Organochlorine Pesticides       |              |      |       |                    |           |           |                      |                      |                      |                      |                      |                  |
| Sum of organochlorine pesticides        | EP075-EM-SUM | 0.03 | mg/kg | ----               |           |           | ----                 | ----                 | ----                 | ----                 | ----                 | ----             |
| EP080/071: Total Petroleum Hydrocarbons |              |      |       |                    |           |           |                      |                      |                      |                      |                      |                  |
| C10 - C36 Fraction (sum)                | EP071-EM     | 50   | mg/kg | ----               | ----      | ----      | ----                 | ----                 | ----                 | ----                 |                      |                  |
| C6 - C9 Fraction                        | EP074-UT     | 10   | mg/kg | ----               | ----      | ----      | ----                 | ----                 | ----                 | ----                 |                      |                  |
| C6 - C9 Fraction                        | EP080        | 10   | mg/kg | ----               | 100       | <10 --    | <10 --               | <10 --               | <10 --               | <10 --               |                      |                  |
| C10 - C36 Fraction (sum)                | EP071        | 50   | mg/kg | ----               | 1000      | <50       | <50                  | 110                  | <50                  | <50                  |                      |                  |
| EP080: BTEXN                            |              |      |       |                    |           |           |                      |                      |                      |                      |                      |                  |
| Benzene                                 | EP080        | 0.2  | mg/kg | ----               | 1         | <0.2 --   | <0.2 --              | <0.2 --              | <0.2 --              | <0.2 --              |                      |                  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID            | Guideline   | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01 | ---- |
|----------------------------------------------|----------|------|-------|----------------------|-------------|-----------|----------------------|----------------------|----------------------|------|------|
| Sampling date/time                           |          |      |       | 22-Jun-2023<br>15:00 |             |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |      |
|                                              |          |      |       | EM2311383-006 MU     |             |           | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |      |
| Compound                                     | Method   | LOR  | Unit  | Lower Limit          | Upper Limit |           |                      |                      |                      |      |      |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----                 | 2000        | ----      | 6 ± 2                | 9 ± 2                | ----                 | ---- |      |
| Barium                                       | EG005T   | 10   | mg/kg | ----                 | 25000       | ----      | ----                 | 80 ± 8               | ----                 | ---- |      |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----                 | 400         | ----      | ----                 | 2 ± 0.2              | ----                 | ---- |      |
| Boron                                        | EG005T   | 50   | mg/kg | ----                 | 60000       | ----      | ----                 | <50 --               | ----                 | ---- |      |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----                 | 400         | ----      | <1 --                | <1 --                | ----                 | ---- |      |
| Copper                                       | EG005T   | 5    | mg/kg | ----                 | 20000       | ----      | 13 ± 2               | 16 ± 2               | ----                 | ---- |      |
| Lead                                         | EG005T   | 5    | mg/kg | ----                 | 6000        | ----      | 33 ± 4               | 15 ± 2               | ----                 | ---- |      |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----                 | 4000        | ----      | <2 --                | ----                 | ----                 | ---- |      |
| Nickel                                       | EG005T   | 2    | mg/kg | ----                 | 12000       | ----      | 19 ± 2               | 37 ± 4               | ----                 | ---- |      |
| Selenium                                     | EG005T   | 5    | mg/kg | ----                 | 40000       | ----      | <5 --                | <5 --                | ----                 | ---- |      |
| Silver                                       | EG005T   | 2    | mg/kg | ----                 | 720         | ----      | <2 --                | ----                 | ----                 | ---- |      |
| Zinc                                         | EG005T   | 5    | mg/kg | ----                 | 140000      | ----      | 331 ± 34             | 48 ± 6               | ----                 | ---- |      |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----                 | 300         | ----      | <0.1 --              | <0.1 --              | ----                 | ---- |      |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----                 | 2000        | ----      | <0.5 --              | ----                 | ----                 | ---- |      |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----                 | 10000       | ----      | <1 --                | ----                 | ----                 | ---- |      |
| EK040T: Fluoride Total                       |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----                 | 40000       | ----      | 180 ± 40             | ----                 | ----                 | ---- |      |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                      |             |           |                      |                      |                      |      |      |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----                 | 16          | ----      | <0.2 --              | ----                 | ----                 | ---- |      |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 12800       | ----      | <0.5 --              | ----                 | ----                 | ---- |      |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----                 | 4800        | ----      | <0.5 --              | ----                 | ----                 | ---- |      |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 480         | ----      | <0.5 --              | ----                 | ----                 | ---- |      |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----                 | 9600        | ----      | <0.5 --              | ----                 | ----                 | ---- |      |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                      |             |           |                      |                      |                      |      |      |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----                 | 480         | ----      | <0.01 --             | ----                 | ----                 | ---- |      |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----                 | 64          | ----      | <0.4 --              | ----                 | ----                 | ---- |      |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----                 | 960         | ----      | <0.02 --             | ----                 | ----                 | ---- |      |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----                 | 960         | ----      | <0.01 --             | ----                 | ----                 | ---- |      |
| Chloroform                                   | EP074-UT | 0.02 | mg/kg | ----                 | 960         | ----      | <0.02 --             | ----                 | ----                 | ---- |      |
| 1,1,1-Trichloroethane                        | EP074-UT | 0.01 | mg/kg | ----                 | 4800        | ----      | <0.01 --             | ----                 | ----                 | ---- |      |

Sub-Matrix: **SOIL**

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline      | Guideline        | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|----------------------------------------------------|--------------|------|-------|--------------------|----------------|------------------|----------------------|----------------------|----------------------|----------------------|------|
|                                                    |              |      |       | Sampling date/time |                |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-006 MU | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |                      |      |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 48             | ----             | <0.01                | --                   | ----                 | ----                 | ---- |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 48             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 80             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 190            | ----             | <0.04                | --                   | ----                 | ----                 | ---- |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 800            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 1600           | ----             | <0.01                | --                   | ----                 | ----                 | ---- |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 210            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 11             | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 4800           | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 640            | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 24000          | ----             | <0.02                | --                   | ----                 | ----                 | ---- |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 4800           | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 3200           | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 64000          | ----             | <0.05                | --                   | ----                 | ----                 | ---- |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 320            | ----             | <0.05                | --                   | ----                 | ----                 | ---- |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 2200           | ----             | <1                   | --                   | ----                 | ----                 | ---- |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 160            | ----             | <0.5                 | --                   | ----                 | ----                 | ---- |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 400            | ----             | <0.5                 | --                   | ----                 | ----                 | ---- |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 4.8            | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 16             | ----             | <0.03                | --                   | ----                 | ----                 | ---- |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 2600           | <10              | --                   | ----                 | ----                 | <10                  | --   |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 2600           | ----             | <10                  | --                   | ----                 | ----                 | ---- |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 40000          | <50              | ----                 | ----                 | ----                 | <50                  | ---- |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 40000          | ----             | <50                  | --                   | ----                 | ----                 | ---- |
| EP080: BTEXN                                       |              |      |       |                    |                |                  |                      |                      |                      |                      |      |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 16             | <0.2             | --                   | ----                 | ----                 | <0.2                 | --   |
| Toluene                                            | EP080        | 0.5  | mg/kg | ----               | 12800          | <0.5             | --                   | ----                 | ----                 | <0.5                 | --   |
| Ethylbenzene                                       | EP080        | 0.5  | mg/kg | ----               | 4800           | <0.5             | --                   | ----                 | ----                 | <0.5                 | --   |





Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category B: Total Concentration: Category B

Sub-Matrix: SOIL

|                          |        |     |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |  |
|--------------------------|--------|-----|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|--|
|                          |        |     |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |  |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |  |
| EP080: BTEXN - Continued |        |     |       |                    |           |           |                      |                      |                      |                      |                  |  |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 9600      | <0.5 --   | ----                 | ----                 | <0.5 --              | ----                 |                  |  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID            | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01             | ----             |
|----------------------------------------------|----------|------|-------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|------------------|------------------|
| Sampling date/time                           |          |      |       | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |                  |
| Compound                                     | Method   | LOR  | Unit  | Lower<br>Limit       |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU | EM2311383-017 MU |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----                 | 500       | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----             |                  |
| Barium                                       | EG005T   | 10   | mg/kg | ----                 | 6250      | ----      | ----                 | 80 ± 8               | ----                 | ----             |                  |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | ----                 | 2 ± 0.2              | ----                 | ----             |                  |
| Boron                                        | EG005T   | 50   | mg/kg | ----                 | 15000     | ----      | ----                 | <50 --               | ----                 | ----             |                  |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | <1 --                | <1 --                | ----                 | ----             |                  |
| Copper                                       | EG005T   | 5    | mg/kg | ----                 | 5000      | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----             |                  |
| Lead                                         | EG005T   | 5    | mg/kg | ----                 | 1500      | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----             |                  |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----                 | 1000      | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Nickel                                       | EG005T   | 2    | mg/kg | ----                 | 3000      | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----             |                  |
| Selenium                                     | EG005T   | 5    | mg/kg | ----                 | 10000     | ----      | <5 --                | <5 --                | ----                 | ----             |                  |
| Silver                                       | EG005T   | 2    | mg/kg | ----                 | 180       | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Zinc                                         | EG005T   | 5    | mg/kg | ----                 | 35000     | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----             |                  |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----                 | 75        | ----      | <0.1 --              | <0.1 --              | ----                 | ----             |                  |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----                 | 500       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----                 | 2500      | ----      | <1 --                | ----                 | ----                 | ----             |                  |
| EK040T: Fluoride Total                       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----                 | 10000     | ----      | 180 ± 40             | ----                 | ----                 | ----             |                  |
| EP066: Polychlorinated Biphenyls (PCB)       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Polychlorinated biphenyls              | EP066-EM | 0.1  | mg/kg | ----                 | 50        | ----      | <0.1 --              | ----                 | ----                 | ----             |                  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----                 | 4         | ----      | <0.2 --              | ----                 | ----                 | ----             |                  |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 3200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----                 | 1200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 120       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----                 | 2400      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----                 | 120       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----                 | 16        | ----      | <0.4 --              | ----                 | ----                 | ----             |                  |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----                 | 240       | ----      | <0.02 --             | ----                 | ----                 | ----             |                  |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----                 | 240       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|----------------------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                                    |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----               | 240       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1-Trichloroethane                              | EP074-UT     | 0.01 | mg/kg | ----               | 1200      | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 12        | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 12        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 20        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 48        | ----      | <0.04 --             | ----                 | ----                 | ----                 |                  |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 200       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 400       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 52        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 2.8       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 1200      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 160       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 6000      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 1200      | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 800       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 16000     | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 80        | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 560       | ----      | <1 --                | ----                 | ----                 | ----                 |                  |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 40        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 100       | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 1.2       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 4         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 650       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 650       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 10000     | <50       | ----                 | ----                 | <50                  | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 10000     | ----      | <50 --               | ----                 | ----                 | ----                 |                  |
| EP080: BTEXN                                       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 4         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |

**Table 2: Waste Disposal contamination concentrations: Category C: Total Concentration: Category C**

Sample ID

Sampling date/time

| Sub-Matrix: SOIL         |        |     |       | Sample ID            | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01             | ----             |
|--------------------------|--------|-----|-------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|------------------|------------------|
| Sampling date/time       |        |     |       | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |                  |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit       |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU | EM2311383-017 MU |
| EP080: BTEXN - Continued |        |     |       |                      |           |           |                      |                      |                      |                  |                  |
| Toluene                  | EP080  | 0.5 | mg/kg | ----                 | 3200      | <0.5 --   | ----                 | ----                 | <0.5 --              | ----             |                  |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----                 | 1200      | <0.5 --   | ----                 | ----                 | <0.5 --              | ----             |                  |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----                 | 2400      | <0.5 --   | ----                 | ----                 | <0.5 --              | ----             |                  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |          |      |       | Sample ID            | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01             | ----             |
|----------------------------------------------|----------|------|-------|----------------------|-----------|-----------|----------------------|----------------------|----------------------|------------------|------------------|
| Sampling date/time                           |          |      |       | 22-Jun-2023<br>15:00 |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |                  |
| Compound                                     | Method   | LOR  | Unit  | Lower<br>Limit       |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU | EM2311383-017 MU |
| EG005(ED093)T: Total Metals by ICP-AES       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Arsenic                                      | EG005T   | 5    | mg/kg | ----                 | 500       | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----             |                  |
| Barium                                       | EG005T   | 10   | mg/kg | ----                 | 6250      | ----      | ----                 | 80 ± 8               | ----                 | ----             |                  |
| Beryllium                                    | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | ----                 | 2 ± 0.2              | ----                 | ----             |                  |
| Boron                                        | EG005T   | 50   | mg/kg | ----                 | 15000     | ----      | ----                 | <50 --               | ----                 | ----             |                  |
| Cadmium                                      | EG005T   | 1    | mg/kg | ----                 | 100       | ----      | <1 --                | <1 --                | ----                 | ----             |                  |
| Copper                                       | EG005T   | 5    | mg/kg | ----                 | 5000      | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----             |                  |
| Lead                                         | EG005T   | 5    | mg/kg | ----                 | 1500      | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----             |                  |
| Molybdenum                                   | EG005T   | 2    | mg/kg | ----                 | 1000      | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Nickel                                       | EG005T   | 2    | mg/kg | ----                 | 3000      | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----             |                  |
| Selenium                                     | EG005T   | 5    | mg/kg | ----                 | 10000     | ----      | <5 --                | <5 --                | ----                 | ----             |                  |
| Silver                                       | EG005T   | 2    | mg/kg | ----                 | 180       | ----      | <2 --                | ----                 | ----                 | ----             |                  |
| Zinc                                         | EG005T   | 5    | mg/kg | ----                 | 35000     | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----             |                  |
| EG035T: Total Recoverable Mercury by FIMS    |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Mercury                                      | EG035T   | 0.1  | mg/kg | ----                 | 75        | ----      | <0.1 --              | <0.1 --              | ----                 | ----             |                  |
| EG048: Hexavalent Chromium (Alkaline Digest) |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Hexavalent Chromium                          | EG048G   | 0.5  | mg/kg | ----                 | 500       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EK026SF: Total CN by Segmented Flow Analyser |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Cyanide                                | EK026SF  | 1    | mg/kg | ----                 | 2500      | ----      | <1 --                | ----                 | ----                 | ----             |                  |
| EK040T: Fluoride Total                       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Fluoride                                     | EK040T   | 40   | mg/kg | ----                 | 10000     | ----      | 180 ± 40             | ----                 | ----                 | ----             |                  |
| EP066: Polychlorinated Biphenyls (PCB)       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Total Polychlorinated biphenyls              | EP066-EM | 0.1  | mg/kg | ----                 | 2         | ----      | <0.1 --              | ----                 | ----                 | ----             |                  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| Benzene                                      | EP074-UT | 0.2  | mg/kg | ----                 | 4         | ----      | <0.2 --              | ----                 | ----                 | ----             |                  |
| Toluene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 3200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Ethylbenzene                                 | EP074-UT | 0.5  | mg/kg | ----                 | 1200      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Styrene                                      | EP074-UT | 0.5  | mg/kg | ----                 | 120       | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| Total Xylenes                                | EP074-UT | 0.5  | mg/kg | ----                 | 2400      | ----      | <0.5 --              | ----                 | ----                 | ----             |                  |
| EP074I: Volatile Halogenated Compounds       |          |      |       |                      |           |           |                      |                      |                      |                  |                  |
| 1,1-Dichloroethene                           | EP074-UT | 0.01 | mg/kg | ----                 | 120       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |
| Methylene chloride                           | EP074-UT | 0.4  | mg/kg | ----                 | 16        | ----      | <0.4 --              | ----                 | ----                 | ----             |                  |
| trans-1,2-Dichloroethene                     | EP074-UT | 0.02 | mg/kg | ----                 | 240       | ----      | <0.02 --             | ----                 | ----                 | ----             |                  |
| cis-1,2-Dichloroethene                       | EP074-UT | 0.01 | mg/kg | ----                 | 240       | ----      | <0.01 --             | ----                 | ----                 | ----             |                  |



**Waste disposal total contamination concentrations**

**Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                                   |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |
|----------------------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|
|                                                    |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |
| Compound                                           | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |
| EP074I: Volatile Halogenated Compounds - Continued |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Chloroform                                         | EP074-UT     | 0.02 | mg/kg | ----               | 240       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1-Trichloroethane                              | EP074-UT     | 0.01 | mg/kg | ----               | 1200      | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| Carbon Tetrachloride                               | EP074-UT     | 0.01 | mg/kg | ----               | 12        | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichloroethane                                 | EP074-UT     | 0.02 | mg/kg | ----               | 12        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Trichloroethene                                    | EP074-UT     | 0.02 | mg/kg | ----               | 20        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2-Trichloroethane                              | EP074-UT     | 0.04 | mg/kg | ----               | 48        | ----      | <0.04 --             | ----                 | ----                 | ----                 |                  |
| Tetrachloroethene                                  | EP074-UT     | 0.02 | mg/kg | ----               | 200       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.1.1.2-Tetrachloroethane                          | EP074-UT     | 0.01 | mg/kg | ----               | 400       | ----      | <0.01 --             | ----                 | ----                 | ----                 |                  |
| 1.1.2.2-Tetrachloroethane                          | EP074-UT     | 0.02 | mg/kg | ----               | 52        | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Hexachlorobutadiene                                | EP074-UT     | 0.02 | mg/kg | ----               | 2.8       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| Chlorobenzene                                      | EP074-UT     | 0.02 | mg/kg | ----               | 1200      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.4-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 160       | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| 1.2-Dichlorobenzene                                | EP074-UT     | 0.02 | mg/kg | ----               | 6000      | ----      | <0.02 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Halogenated)           |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| 2-Chlorophenol                                     | EP075-EM     | 0.03 | mg/kg | ----               | 1200      | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4-Dichlorophenol                                 | EP075-EM     | 0.03 | mg/kg | ----               | 800       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| 2.4.5-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 16000     | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| 2.4.6-Trichlorophenol                              | EP075-EM     | 0.05 | mg/kg | ----               | 80        | ----      | <0.05 --             | ----                 | ----                 | ----                 |                  |
| EP075A: Phenolic Compounds (Non-halogenated)       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Sum of Phenols (non-halogenated)                   | EP075-EM-SUM | 1    | mg/kg | ----               | 560       | ----      | <1 --                | ----                 | ----                 | ----                 |                  |
| EP075B: Polynuclear Aromatic Hydrocarbons          |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzo(a)pyrene                                     | EP075-EM     | 0.5  | mg/kg | ----               | 20        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| Sum of polycyclic aromatic hydrocarbons            | EP075-EM-SUM | 0.5  | mg/kg | ----               | 50        | ----      | <0.5 --              | ----                 | ----                 | ----                 |                  |
| EP075I: Organochlorine Pesticides                  |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Heptachlor                                         | EP075-EM     | 0.03 | mg/kg | ----               | 1.2       | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| Chlordane                                          | EP075-EM-SUM | 0.03 | mg/kg | ----               | 4         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |
| EP080/071: Total Petroleum Hydrocarbons            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| C6 - C9 Fraction                                   | EP080        | 10   | mg/kg | ----               | 325       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |
| C6 - C9 Fraction                                   | EP074-UT     | 10   | mg/kg | ----               | 325       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071        | 50   | mg/kg | ----               | 5000      | <50       | ----                 | ----                 | <50                  | ----                 |                  |
| C10 - C36 Fraction (sum)                           | EP071-EM     | 50   | mg/kg | ----               | 5000      | ----      | <50 --               | ----                 | ----                 | ----                 |                  |
| EP080: BTEXN                                       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |
| Benzene                                            | EP080        | 0.2  | mg/kg | ----               | 4         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |



Waste disposal total contamination concentrations

Table 2: Waste Disposal contamination concentrations: Category D/Industrial Waste: Total Concentration: Category D/Industrial Waste

| Sub-Matrix: SOIL         |        |     |       | Sample ID          |                | Guideline        | Guideline        | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|--------------------------|--------|-----|-------|--------------------|----------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|------|
|                          |        |     |       | Sampling date/time |                |                  |                  | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
| Compound                 | Method | LOR | Unit  | Lower<br>Limit     | Upper<br>Limit | EM2311383-006 MU | EM2311383-007 MU | EM2311383-012 MU     | EM2311383-017 MU     |                      |                      |      |
| EP080: BTEXN - Continued |        |     |       |                    |                |                  |                  |                      |                      |                      |                      |      |
| Toluene                  | EP080  | 0.5 | mg/kg | ----               | 3200           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |
| Ethylbenzene             | EP080  | 0.5 | mg/kg | ----               | 1200           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |
| Total Xylenes            | EP080  | 0.5 | mg/kg | ----               | 2400           | <0.5 --          | ----             | ----                 | <0.5 --              | ----                 |                      |      |



**Fill material contamination total concentration Upper Limit**

**Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |              |      |         | Sample ID          | Guideline   | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ---- |
|----------------------------------------------|--------------|------|---------|--------------------|-------------|-----------|----------------------|----------------------|----------------------|----------------------|------|
|                                              |              |      |         | Sampling date/time |             |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ---- |
|                                              |              |      |         |                    |             |           | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU     |      |
| Compound                                     | Method       | LOR  | Unit    | Lower Limit        | Upper Limit |           |                      |                      |                      |                      |      |
| EA001: pH in soil using 0.01M CaCl extract   |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| pH (CaCl2)                                   | EA001        | 0.1  | pH Unit | 4                  | 10          | ----      | 6.8 ± 0.10           | ----                 | ----                 | ----                 |      |
| EG005(ED093)T: Total Metals by ICP-AES       |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Arsenic                                      | EG005T       | 5    | mg/kg   | ----               | 20          | ----      | 6 ± 2                | 9 ± 2                | ----                 | ----                 |      |
| Cadmium                                      | EG005T       | 1    | mg/kg   | ----               | 3           | ----      | <1 --                | <1 --                | ----                 | ----                 |      |
| Copper                                       | EG005T       | 5    | mg/kg   | ----               | 100         | ----      | 13 ± 2               | 16 ± 2               | ----                 | ----                 |      |
| Lead                                         | EG005T       | 5    | mg/kg   | ----               | 300         | ----      | 33 ± 4               | 15 ± 2               | ----                 | ----                 |      |
| Molybdenum                                   | EG005T       | 2    | mg/kg   | ----               | 40          | ----      | <2 --                | ----                 | ----                 | ----                 |      |
| Nickel                                       | EG005T       | 2    | mg/kg   | ----               | 60          | ----      | 19 ± 2               | 37 ± 4               | ----                 | ----                 |      |
| Selenium                                     | EG005T       | 5    | mg/kg   | ----               | 10          | ----      | <5 --                | <5 --                | ----                 | ----                 |      |
| Silver                                       | EG005T       | 2    | mg/kg   | ----               | 10          | ----      | <2 --                | ----                 | ----                 | ----                 |      |
| Tin                                          | EG005T       | 5    | mg/kg   | ----               | 50          | ----      | <5 --                | ----                 | ----                 | ----                 |      |
| Zinc                                         | EG005T       | 5    | mg/kg   | ----               | 200         | ----      | 331 ± 34             | 48 ± 6               | ----                 | ----                 |      |
| EG035T: Total Recoverable Mercury by FIMS    |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Mercury                                      | EG035T       | 0.1  | mg/kg   | ----               | 1           | ----      | <0.1 --              | <0.1 --              | ----                 | ----                 |      |
| EG048: Hexavalent Chromium (Alkaline Digest) |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Hexavalent Chromium                          | EG048G       | 0.5  | mg/kg   | ----               | 1           | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| EK026SF: Total CN by Segmented Flow Analyser |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Total Cyanide                                | EK026SF      | 1    | mg/kg   | ----               | 50          | ----      | <1 --                | ----                 | ----                 | ----                 |      |
| EK040T: Fluoride Total                       |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Fluoride                                     | EK040T       | 40   | mg/kg   | ----               | 450         | ----      | 180 ± 40             | ----                 | ----                 | ----                 |      |
| EP066: Polychlorinated Biphenyls (PCB)       |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Total Polychlorinated biphenyls              | EP066-EM     | 0.1  | mg/kg   | ----               | 2           | ----      | <0.1 --              | ----                 | ----                 | ----                 |      |
| EP074A: Monocyclic Aromatic Hydrocarbons     |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Benzene                                      | EP074-UT     | 0.2  | mg/kg   | ----               | 1           | ----      | <0.2 --              | ----                 | ----                 | ----                 |      |
| Sum of monocyclic aromatic hydrocarbons      | EP074-UT-SUM | 0.2  | mg/kg   | ----               | 7           | ----      | <0.2 --              | ----                 | ----                 | ----                 |      |
| EP074I: Volatile Halogenated Compounds       |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Sum of volatile chlorinated hydrocarbons     | EP074-UT-SUM | 0.01 | mg/kg   | ----               | 1           | ----      | <0.01 --             | ----                 | ----                 | ----                 |      |
| EP075A: Phenolic Compounds (Halogenated)     |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Sum of Phenols (halogenated)                 | EP075-EM-SUM | 0.03 | mg/kg   | ----               | 1           | ----      | <0.03 --             | ----                 | ----                 | ----                 |      |
| EP075A: Phenolic Compounds (Non-halogenated) |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Sum of Phenols (non-halogenated)             | EP075-EM-SUM | 1    | mg/kg   | ----               | 60          | ----      | <1 --                | ----                 | ----                 | ----                 |      |
| EP075B: Polynuclear Aromatic Hydrocarbons    |              |      |         |                    |             |           |                      |                      |                      |                      |      |
| Benzo(a)pyrene                               | EP075-EM     | 0.5  | mg/kg   | ----               | 1           | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |
| Sum of polycyclic aromatic hydrocarbons      | EP075-EM-SUM | 0.5  | mg/kg   | ----               | 20          | ----      | <0.5 --              | ----                 | ----                 | ----                 |      |





Fill material contamination total concentration Upper Limit  
Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit

| Sub-Matrix: SOIL                        |              |      |       | Sample ID          | Guideline | Guideline | VAL01-6              | SP01-1               | SP01-6               | FD01                 | ----             |  |
|-----------------------------------------|--------------|------|-------|--------------------|-----------|-----------|----------------------|----------------------|----------------------|----------------------|------------------|--|
|                                         |              |      |       | Sampling date/time |           |           | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | 22-Jun-2023<br>15:00 | ----             |  |
| Compound                                | Method       | LOR  | Unit  | Lower<br>Limit     |           |           | Upper<br>Limit       | EM2311383-006 MU     | EM2311383-007 MU     | EM2311383-012 MU     | EM2311383-017 MU |  |
|                                         |              |      |       |                    |           |           |                      |                      |                      |                      |                  |  |
| EP075I: Organochlorine Pesticides       |              |      |       |                    |           |           |                      |                      |                      |                      |                  |  |
| Sum of organochlorine pesticides        | EP075-EM-SUM | 0.03 | mg/kg | ----               | 1         | ----      | <0.03 --             | ----                 | ----                 | ----                 |                  |  |
| EP080/071: Total Petroleum Hydrocarbons |              |      |       |                    |           |           |                      |                      |                      |                      |                  |  |
| C6 - C9 Fraction                        | EP080        | 10   | mg/kg | ----               | 100       | <10 --    | ----                 | ----                 | <10 --               | ----                 |                  |  |
| C6 - C9 Fraction                        | EP074-UT     | 10   | mg/kg | ----               | 100       | ----      | <10 --               | ----                 | ----                 | ----                 |                  |  |
| C10 - C36 Fraction (sum)                | EP071        | 50   | mg/kg | ----               | 1000      | <50       | ----                 | ----                 | <50                  | ----                 |                  |  |
| C10 - C36 Fraction (sum)                | EP071-EM     | 50   | mg/kg | ----               | 1000      | ----      | <50 --               | ----                 | ----                 | ----                 |                  |  |
| EP080: BTEXN                            |              |      |       |                    |           |           |                      |                      |                      |                      |                  |  |
| Benzene                                 | EP080        | 0.2  | mg/kg | ----               | 1         | <0.2 --   | ----                 | ----                 | <0.2 --              | ----                 |                  |  |



## QUALITY CONTROL REPORT

|                         |                                             |                         |                                              |
|-------------------------|---------------------------------------------|-------------------------|----------------------------------------------|
| Work Order              | : EM2311383                                 | Page                    | : 1 of 18                                    |
| Client                  | : HELIA EHS PTY LTD                         | Laboratory              | : Environmental Division Melbourne           |
| Contact                 | : ELLA DENTON                               | Contact                 | : Celline Tamin                              |
| Address                 | : 423 CITY ROAD<br>SOUTH MELBOURNE VIC 3205 | Address                 | : 4 Westall Rd Springvale VIC Australia 3171 |
| Telephone               | : ----                                      | Telephone               | : +61-3-8549 9600                            |
| Project                 | : 20220134                                  | Date Samples Received   | : 22-Jun-2023                                |
| Order number            | : 20220134                                  | Date Analysis Commenced | : 23-Jun-2023                                |
| C-O-C number            | : ----                                      | Issue Date              | : 03-Jul-2023                                |
| Sampler                 | : Ella Denton/ Garry Masur                  |                         |                                              |
| Site                    | : Hopetoun Park                             |                         |                                              |
| Quote number            | : MEBQ/108/21 Primary Work                  |                         |                                              |
| No. of samples received | : 18                                        |                         |                                              |
| No. of samples analysed | : 10                                        |                         |                                              |



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                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |
| Sanjay Parekh   | LCMS Coordinator       | Melbourne Organics, Springvale, VIC   |



## 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: 5133302)</b> |           |                    |            |                                   |       |                 |                  |         |                    |
| EM2311363-010                                                   | 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 | 40              | 50               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 16              | 19               | 16.3    | No Limit           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 20              | 20               | 0.0     | 0% - 50%           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg | 84              | 89               | 6.7     | 0% - 20%           |
|                                                                 |           | EG005T: Silver     | 7440-22-4  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Arsenic    | 7440-38-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Copper     | 7440-50-8  | 5                                 | mg/kg | 19              | 21               | 12.1    | No Limit           |
|                                                                 |           | EG005T: Lead       | 7439-92-1  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Manganese  | 7439-96-5  | 5                                 | mg/kg | 344             | 361              | 4.8     | 0% - 20%           |
|                                                                 |           | EG005T: Selenium   | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Tin        | 7440-31-5  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Vanadium   | 7440-62-2  | 5                                 | mg/kg | 12              | 14               | 14.7    | No Limit           |
|                                                                 |           | EG005T: Zinc       | 7440-66-6  | 5                                 | mg/kg | 39              | 41               | 5.8     | No Limit           |
| EM2311403-001                                                   | Anonymous | EG005T: Boron      | 7440-42-8  | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
|                                                                 |           | 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 | 140             | 110              | 22.7    | 0% - 50%           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 91              | 90               | 1.1     | 0% - 20%           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 13              | 11               | 21.1    | No Limit           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | 2               | 2                | 0.0     | No Limit           |
|                                                                 |           | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg | 70              | 62               | 11.1    | 0% - 20%           |



| 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 (%) |
| <b>EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5133302) - continued</b> |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311403-001                                                               | Anonymous | EG005T: Silver                            | 7440-22-4  | 2                                 | mg/kg   | <2              | <2               | 0.0     | No Limit           |
|                                                                             |           | EG005T: Arsenic                           | 7440-38-2  | 5                                 | mg/kg   | 7               | 9                | 22.1    | No Limit           |
|                                                                             |           | EG005T: Copper                            | 7440-50-8  | 5                                 | mg/kg   | 52              | 67               | 24.7    | 0% - 50%           |
|                                                                             |           | EG005T: Lead                              | 7439-92-1  | 5                                 | mg/kg   | 37              | 31               | 17.2    | No Limit           |
|                                                                             |           | EG005T: Manganese                         | 7439-96-5  | 5                                 | mg/kg   | 2630            | 2530             | 3.8     | 0% - 20%           |
|                                                                             |           | EG005T: Selenium                          | 7782-49-2  | 5                                 | mg/kg   | <5              | <5               | 0.0     | No Limit           |
|                                                                             |           | EG005T: Tin                               | 7440-31-5  | 5                                 | mg/kg   | 8               | 9                | 0.0     | No Limit           |
|                                                                             |           | EG005T: Vanadium                          | 7440-62-2  | 5                                 | mg/kg   | 15              | 18               | 18.1    | No Limit           |
|                                                                             |           | EG005T: Zinc                              | 7440-66-6  | 5                                 | mg/kg   | 191             | 184              | 3.7     | 0% - 20%           |
|                                                                             |           | EG005T: Boron                             | 7440-42-8  | 50                                | mg/kg   | <50             | <50              | 0.0     | No Limit           |
| <b>EA001: pH in soil using 0.01M CaCl extract (QC Lot: 5138473)</b>         |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311316-001                                                               | Anonymous | EA001: pH (CaCl2)                         | ----       | 0.1                               | pH Unit | 4.7             | 4.6              | 2.6     | 0% - 20%           |
| EM2311353-010                                                               | Anonymous | EA001: pH (CaCl2)                         | ----       | 0.1                               | pH Unit | 7.5             | 7.6              | 0.0     | 0% - 20%           |
| <b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5134397)</b>        |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311047-029                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 28.4            | 27.4             | 3.7     | 0% - 20%           |
| EM2311363-005                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 22.4            | 23.9             | 6.2     | 0% - 20%           |
| <b>EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5134398)</b>        |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311383-004                                                               | VAL01-4   | EA055: Moisture Content                   | ----       | 0.1                               | %       | 5.0             | 5.0              | 0.0     | 0% - 20%           |
| EM2311455-012                                                               | Anonymous | EA055: Moisture Content                   | ----       | 0.1                               | %       | 25.2            | 25.6             | 1.4     | 0% - 20%           |
| <b>EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5133303)</b>          |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311363-010                                                               | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| EM2311403-001                                                               | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 5135815)</b>       |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311383-007                                                               | SP01-1    | EG048G: Hexavalent Chromium               | 18540-29-9 | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
| EM2311449-002                                                               | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
| <b>EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 5137264)</b>       |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311316-012                                                               | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 1                                 | mg/kg   | <1              | <1               | 0.0     | No Limit           |
| EM2311146-008                                                               | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 1                                 | mg/kg   | <1              | <1               | 0.0     | No Limit           |
| <b>EK040T: Fluoride Total (QC Lot: 5135812)</b>                             |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2310780-003                                                               | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg   | 140             | 120              | 15.0    | No Limit           |
| EM2311316-030                                                               | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg   | 150             | 180              | 16.0    | No Limit           |
| <b>EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5133593)</b>             |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2310780-003                                                               | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| EM2311353-001                                                               | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg   | <0.1            | <0.1             | 0.0     | No Limit           |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 5133585)</b>           |           |                                           |            |                                   |         |                 |                  |         |                    |
| EM2311353-001                                                               | Anonymous | EP074-UT: Benzene                         | 71-43-2    | 0.2                               | mg/kg   | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                             |           | EP074-UT: Toluene                         | 108-88-3   | 0.5                               | mg/kg   | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                             |           | EP074-UT: Ethylbenzene                    | 100-41-4   | 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 (%) |
| EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 5133585) - continued |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: meta- & para-Xylene       | 108-38-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        |                                     | 106-42-3                     |                                   |       |                 |                  |          |                    |
|                                                                        |                        | EP074-UT: Styrene                   | 100-42-5                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
| EM2311455-001                                                          | Anonymous              | EP074-UT: ortho-Xylene              | 95-47-6                      | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Benzene                   | 71-43-2                      | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Toluene                   | 108-88-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Ethylbenzene              | 100-41-4                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: meta- & para-Xylene       | 108-38-3                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        |                        |                                     | 106-42-3                     |                                   |       |                 |                  |          |                    |
|                                                                        |                        | EP074-UT: Styrene                   | 100-42-5                     | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0      | No Limit           |
|                                                                        | EP074-UT: ortho-Xylene | 95-47-6                             | 0.5                          | mg/kg                             | <0.5  | <0.5            | 0.0              | No Limit |                    |
| EP074H: Naphthalene (QC Lot: 5133585)                                  |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: Naphthalene               | 91-20-3                      | 1                                 | mg/kg | <1              | <1               | 0.0      | No Limit           |
| EM2311455-001                                                          | Anonymous              | EP074-UT: Naphthalene               | 91-20-3                      | 1                                 | mg/kg | <1              | <1               | 0.0      | No Limit           |
| EP074I: Volatile Halogenated Compounds (QC Lot: 5133585)               |                        |                                     |                              |                                   |       |                 |                  |          |                    |
| EM2311353-001                                                          | Anonymous              | EP074-UT: 1,1-Dichloroethene        | 75-35-4                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: cis-1,2-Dichloroethene    | 156-59-2                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1-Trichloroethane     | 71-55-6                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Carbon Tetrachloride      | 56-23-5                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 630-20-6                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2,4-Trichlorobenzene    | 120-82-1                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Vinyl chloride            | 75-01-4                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: trans-1,2-Dichloroethene  | 156-60-5                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Chloroform                | 67-66-3                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2-Dichloroethane        | 107-06-2                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Trichloroethene           | 79-01-6                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Tetrachloroethene         | 127-18-4                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 79-34-5                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Hexachlorobutadiene       | 87-68-3                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Chlorobenzene             | 108-90-7                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,4-Dichlorobenzene       | 106-46-7                     | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2-Dichlorobenzene       | 95-50-1                      | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Trichloroethane   | 79-00-5                      | 0.04                              | mg/kg | <0.04           | <0.04            | 0.0      | No Limit           |
|                                                                        |                        |                                     | EP074-UT: Methylene chloride | 75-09-2                           | 0.4   | mg/kg           | <0.4             | <0.4     | 0.0                |
| EM2311455-001                                                          | Anonymous              | EP074-UT: 1,1-Dichloroethene        | 75-35-4                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: cis-1,2-Dichloroethene    | 156-59-2                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1-Trichloroethane     | 71-55-6                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: Carbon Tetrachloride      | 56-23-5                      | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,1,1,2-Tetrachloroethane | 630-20-6                     | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0      | No Limit           |
|                                                                        |                        | EP074-UT: 1,2,4-Trichlorobenzene    | 120-82-1                     | 0.01                              | mg/kg | <0.01           | <0.01            | 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 (%) |
| EP074I: Volatile Halogenated Compounds (QC Lot: 5133585) - continued |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2311455-001                                                        | Anonymous | EP074-UT: Vinyl chloride                      | 75-01-4           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: trans-1,2-Dichloroethene            | 156-60-5          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Chloroform                          | 67-66-3           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,2-Dichloroethane                  | 107-06-2          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Trichloroethene                     | 79-01-6           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Tetrachloroethene                   | 127-18-4          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,1,2,2-Tetrachloroethane           | 79-34-5           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Hexachlorobutadiene                 | 87-68-3           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Chlorobenzene                       | 108-90-7          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,4-Dichlorobenzene                 | 106-46-7          | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,2-Dichlorobenzene                 | 95-50-1           | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: 1,1,2-Trichloroethane               | 79-00-5           | 0.04                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
|                                                                      |           | EP074-UT: Methylene chloride                  | 75-09-2           | 0.4                               | mg/kg | <0.4            | <0.4             | 0.0     | No Limit           |
| EP075A: Phenolic Compounds (Halogenated) (QC Lot: 5133589)           |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                        | Anonymous | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-90-2 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: Pentachlorophenol                   | 87-86-5           | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EM2311353-001                                                        | Anonymous | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5          | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2           | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-90-2 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: Pentachlorophenol                   | 87-86-5           | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 5133589)       |           |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                        | Anonymous | EP075-EM: Phenol                              | 108-95-2          | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2-Methylphenol                      | 95-48-7           | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 3- & 4-Methylphenol                 | 1319-77-3         | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2-Nitrophenol                       | 88-75-5           | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                      |           | EP075-EM: 2,4-Dimethylphenol                  | 105-67-9          | 1                                 | mg/kg | <1              | <1               | 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 (%) |
| EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 5133589) - continued |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                              | Anonymous | EP075-EM: 2,4-Dinitrophenol                 | 51-28-5              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 4-Nitrophenol                     | 100-02-7             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methyl-4,6-dinitrophenol        | 8071-51-0            | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dinoseb                           | 88-85-7              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol    | 131-89-5             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
| EM2311353-001                                                              | Anonymous | EP075-EM: Phenol                            | 108-95-2             | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methylphenol                    | 95-48-7              | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 3- & 4-Methylphenol               | 1319-77-3            | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Nitrophenol                     | 88-75-5              | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2,4-Dimethylphenol                | 105-67-9             | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2,4-Dinitrophenol                 | 51-28-5              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 4-Nitrophenol                     | 100-02-7             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Methyl-4,6-dinitrophenol        | 8071-51-0            | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dinoseb                           | 88-85-7              | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol    | 131-89-5             | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5133589)                |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                              | Anonymous | EP075-EM: Naphthalene                       | 91-20-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthene                      | 83-32-9              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthylene                    | 208-96-8             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluorene                          | 86-73-7              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Phenanthrene                      | 85-01-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Anthracene                        | 120-12-7             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluoranthene                      | 206-44-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Pyrene                            | 129-00-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benz(a)anthracene                 | 56-55-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Chrysene                          | 218-01-9             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Indeno(1,2,3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Dibenz(a,h)anthracene             | 53-70-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(g,h,i)perylene              | 191-24-2             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | <1.0            | <1.0             | 0.0     | No Limit           |
| EM2311353-001                                                              | Anonymous | EP075-EM: Naphthalene                       | 91-20-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthene                      | 83-32-9              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Acenaphthylene                    | 208-96-8             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluorene                          | 86-73-7              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Phenanthrene                      | 85-01-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Anthracene                        | 120-12-7             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Fluoranthene                      | 206-44-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                            |           | EP075-EM: Pyrene                            | 129-00-0             | 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 (%) |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5133589) - continued |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                           | Anonymous | EP075-EM: Benz(a)anthracene                 | 56-55-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Chrysene                          | 218-01-9             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Indeno(1.2.3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dibenzo(a.h)anthracene            | 53-70-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(g.h.i)perylene              | 191-24-2             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | <1.0            | <1.0             | 0.0     | No Limit           |
| EP075I: Organochlorine Pesticides (QC Lot: 5133589)                     |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                           | Anonymous | EP075-EM: alpha-BHC                         | 319-84-6             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Hexachlorobenzene (HCB)           | 118-74-1             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: beta-BHC                          | 319-85-7             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: gamma-BHC                         | 58-89-9              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: delta-BHC                         | 319-86-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor                        | 76-44-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Aldrin                            | 309-00-2             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor epoxide                | 1024-57-3            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: cis-Chlordane                     | 5103-71-9            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: trans-Chlordane                   | 5103-74-2            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 1                      | 959-98-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dieldrin                          | 60-57-1              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin aldehyde                   | 7421-93-4            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin                            | 72-20-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 2                      | 33213-65-9           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan sulfate                | 1031-07-8            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Methoxychlor                      | 72-43-5              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDE                          | 72-55-9              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDD                          | 72-54-8              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: 4,4`-DDT                          | 50-29-3              | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EM2311353-001                                                           | Anonymous | EP075-EM: alpha-BHC                         | 319-84-6             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Hexachlorobenzene (HCB)           | 118-74-1             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: beta-BHC                          | 319-85-7             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: gamma-BHC                         | 58-89-9              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: delta-BHC                         | 319-86-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor                        | 76-44-8              | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Aldrin                            | 309-00-2             | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor epoxide                | 1024-57-3            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: cis-Chlordane                     | 5103-71-9            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: trans-Chlordane                   | 5103-74-2            | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 1                      | 959-98-8             | 0.03                              | mg/kg | <0.03           | <0.03            | 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 (%) |
| EP075I: Organochlorine Pesticides (QC Lot: 5133589) - continued                   |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP075-EM: Dieldrin                          | 60-57-1     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endrin aldehyde                   | 7421-93-4   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endrin                            | 72-20-8     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endosulfan 2                      | 33213-65-9  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Endosulfan sulfate                | 1031-07-8   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: Methoxychlor                      | 72-43-5     | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDE                          | 72-55-9     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDD                          | 72-54-8     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                   |           | EP075-EM: 4,4'-DDT                          | 50-29-3     | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133253)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                     | Anonymous | EP080: C6 - C9 Fraction                     | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311363-011                                                                     | Anonymous | EP080: C6 - C9 Fraction                     | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133585)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP074-UT: C6 - C9 Fraction                  | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311455-001                                                                     | Anonymous | EP074-UT: C6 - C9 Fraction                  | ----        | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5133592)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                                     | Anonymous | EP071-EM: C15 - C28 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C29 - C36 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C10 - C14 Fraction                | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EM2311353-001                                                                     | Anonymous | EP071-EM: C15 - C28 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C29 - C36 Fraction                | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: C10 - C14 Fraction                | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5134352)                         |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311363-002                                                                     | Anonymous | EP071: C15 - C28 Fraction                   | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071: C29 - C36 Fraction                   | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071: C10 - C14 Fraction                   | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133253) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                     | Anonymous | EP080: C6 - C10 Fraction                    | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311363-011                                                                     | Anonymous | EP080: C6 - C10 Fraction                    | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133585) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                     | Anonymous | EP074-UT: C6 - C10 Fraction                 | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
|                                                                                   |           | EP074-UT: C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2311455-001                                                                     | Anonymous | EP074-UT: C6 - C10 Fraction                 | C6_C10      | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
|                                                                                   |           | EP074-UT: C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133592) |           |                                             |             |                                   |       |                 |                  |         |                    |
| EM2310780-003                                                                     | Anonymous | EP071-EM: >C16 - C34 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: >C34 - C40 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                   |           | EP071-EM: >C10 - C16 Fraction               | ----        | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EM2311353-001                                                                     | Anonymous | EP071-EM: >C16 - C34 Fraction               | ----        | 100                               | mg/kg | <100            | <100             | 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 (%) |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5133592) - continued |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311353-001                                                                                 | Anonymous | EP071-EM: >C34 - C40 Fraction | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071-EM: >C10 - C16 Fraction | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5134352)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311363-002                                                                                 | Anonymous | EP071: >C16 - C34 Fraction    | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C34 - C40 Fraction    | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C10 - C16 Fraction    | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 5133253)                                                                |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311353-003                                                                                 | Anonymous | EP080: Benzene                | 71-43-2    | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                                               |           | EP080: Toluene                | 108-88-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           | EP080: Ethylbenzene           | 100-41-4   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           | EP080: meta- & para-Xylene    | 108-38-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |           |                               | 106-42-3   |                                   |       |                 |                  |         |                    |
|                                                                                               |           | EP080: ortho-Xylene           | 95-47-6    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
| EM2311363-011                                                                                 | Anonymous | EP080: Naphthalene            | 91-20-3    | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                                               |           | 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           |
| Sub-Matrix: WATER                                                                             |           |                               |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
| Laboratory sample ID                                                                          | Sample ID | Method: Compound              | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5131510)                                     |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP071: C15 - C28 Fraction     | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: C10 - C14 Fraction     | ----       | 50                                | µg/L  | <50             | <50              | 0.0     | No Limit           |
|                                                                                               |           | EP071: C29 - C36 Fraction     | ----       | 50                                | µg/L  | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5132259)                                     |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: C6 - C9 Fraction       | ----       | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EM2311416-003                                                                                 | Anonymous | EP080: C6 - C9 Fraction       | ----       | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5131510)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP071: >C10 - C16 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C16 - C34 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
|                                                                                               |           | EP071: >C34 - C40 Fraction    | ----       | 100                               | µg/L  | <100            | <100             | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5132259)             |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: C6 - C10 Fraction      | C6_C10     | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EM2311416-003                                                                                 | Anonymous | EP080: C6 - C10 Fraction      | C6_C10     | 20                                | µg/L  | <20             | <20              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 5132259)                                                                |           |                               |            |                                   |       |                 |                  |         |                    |
| EM2311383-018                                                                                 | RB01      | EP080: Benzene                | 71-43-2    | 1                                 | µg/L  | <1              | <1               | 0.0     | No Limit           |

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 Client : HELIA EHS PTY LTD  
 Project : 20220134



| Sub-Matrix: <b>WATER</b>                          |           |                            |            | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|---------------------------------------------------|-----------|----------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                              | Sample ID | Method: Compound           | CAS Number | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EP080: BTEXN (QC Lot: 5132259) - continued</b> |           |                            |            |                                   |      |                 |                  |         |                    |
| EM2311383-018                                     | RB01      | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                   |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |
| EM2311416-003                                     | Anonymous | EP080: Benzene             | 71-43-2    | 1                                 | µg/L | <1              | <1               | 0.0     | No Limit           |
|                                                   |           | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                   |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                   |           | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |



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

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

Sub-Matrix: **SOIL**

| Sub-Matrix: SOIL                                              |            |      |         | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                    |                       |      |
|---------------------------------------------------------------|------------|------|---------|-----------------------------|---------------------------------------|--------------------|-----------------------|------|
|                                                               |            |      |         |                             | Spike<br>Concentration                | Spike Recovery (%) | Acceptable Limits (%) |      |
| Method: Compound                                              | CAS Number | LOR  | Unit    | Result                      |                                       | LCS                | Low                   | High |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5133302)       |            |      |         |                             |                                       |                    |                       |      |
| EG005T: Arsenic                                               | 7440-38-2  | 5    | mg/kg   | <5                          | 123 mg/kg                             | 96.9               | 70.0                  | 130  |
| EG005T: Barium                                                | 7440-39-3  | 10   | mg/kg   | <10                         | 99.3 mg/kg                            | 86.0               | 70.0                  | 130  |
| EG005T: Beryllium                                             | 7440-41-7  | 1    | mg/kg   | <1                          | 0.67 mg/kg                            | 83.4               | 70.0                  | 130  |
| EG005T: Boron                                                 | 7440-42-8  | 50   | mg/kg   | <50                         | ----                                  | ----               | ----                  | ---- |
| EG005T: Cadmium                                               | 7440-43-9  | 1    | mg/kg   | <1                          | 1.23 mg/kg                            | 53.4               | 50.0                  | 130  |
| EG005T: Chromium                                              | 7440-47-3  | 2    | mg/kg   | <2                          | 20.2 mg/kg                            | 92.7               | 70.0                  | 130  |
| EG005T: Cobalt                                                | 7440-48-4  | 2    | mg/kg   | <2                          | 11.2 mg/kg                            | 85.2               | 70.0                  | 130  |
| EG005T: Copper                                                | 7440-50-8  | 5    | mg/kg   | <5                          | 55.9 mg/kg                            | 87.1               | 70.0                  | 130  |
| EG005T: Lead                                                  | 7439-92-1  | 5    | mg/kg   | <5                          | 62.4 mg/kg                            | 89.1               | 70.0                  | 130  |
| EG005T: Manganese                                             | 7439-96-5  | 5    | mg/kg   | <5                          | 590 mg/kg                             | 87.3               | 70.0                  | 130  |
| EG005T: Molybdenum                                            | 7439-98-7  | 2    | mg/kg   | <2                          | 2.19 mg/kg                            | 73.4               | 70.0                  | 130  |
| EG005T: Nickel                                                | 7440-02-0  | 2    | mg/kg   | <2                          | 15.4 mg/kg                            | 92.3               | 70.0                  | 130  |
| EG005T: Selenium                                              | 7782-49-2  | 5    | mg/kg   | <5                          | ----                                  | ----               | ----                  | ---- |
| EG005T: Silver                                                | 7440-22-4  | 2    | mg/kg   | <2                          | 2.9 mg/kg                             | 125                | 70.0                  | 130  |
| EG005T: Tin                                                   | 7440-31-5  | 5    | mg/kg   | <5                          | 5.33 mg/kg                            | 120                | 70.0                  | 130  |
| EG005T: Vanadium                                              | 7440-62-2  | 5    | mg/kg   | <5                          | 61.3 mg/kg                            | 92.5               | 70.0                  | 130  |
| EG005T: Zinc                                                  | 7440-66-6  | 5    | mg/kg   | <5                          | 162 mg/kg                             | 73.8               | 70.0                  | 130  |
| EA001: pH in soil using 0.01M CaCl extract (QCLot: 5138473)   |            |      |         |                             |                                       |                    |                       |      |
| EA001: pH (CaCl2)                                             | ----       | ---- | pH Unit | ----                        | 4 pH Unit                             | 101                | 98.8                  | 101  |
|                                                               |            |      |         | ----                        | 7 pH Unit                             | 101                | 99.3                  | 101  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5133303)    |            |      |         |                             |                                       |                    |                       |      |
| EG035T: Mercury                                               | 7439-97-6  | 0.1  | mg/kg   | <0.1                        | 0.64 mg/kg                            | 88.3               | 70.0                  | 130  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5135815) |            |      |         |                             |                                       |                    |                       |      |
| EG048G: Hexavalent Chromium                                   | 18540-29-9 | 0.5  | mg/kg   | <0.5                        | 20 mg/kg                              | 84.0               | 70.0                  | 130  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 5137264) |            |      |         |                             |                                       |                    |                       |      |
| EK026SF: Total Cyanide                                        | 57-12-5    | 1    | mg/kg   | <1                          | 20 mg/kg                              | 121                | 70.0                  | 130  |
| EK040T: Fluoride Total (QCLot: 5135812)                       |            |      |         |                             |                                       |                    |                       |      |
| EK040T: Fluoride                                              | 16984-48-8 | 40   | mg/kg   | <40                         | 334 mg/kg                             | 102                | 93.1                  | 107  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5133593)       |            |      |         |                             |                                       |                    |                       |      |
| EP066-EM: Total Polychlorinated biphenyls                     | ----       | 0.1  | mg/kg   | <0.1                        | 1 mg/kg                               | 102                | 67.4                  | 136  |



| Sub-Matrix: SOIL                                          |                      |            |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |        |                        |                           |
|-----------------------------------------------------------|----------------------|------------|-------|-----------------------------|---------------------------------------|--------|------------------------|---------------------------|
| Method: Compound                                          |                      | CAS Number | LOR   |                             | Unit                                  | Result | Spike<br>Concentration | Spike Recovery (%)<br>LCS |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585) |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Benzene                                         | 71-43-2              | 0.2        | mg/kg | <0.2                        | 2.1 mg/kg                             | 92.5   | 69.2                   | 116                       |
| EP074-UT: Toluene                                         | 108-88-3             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.3   | 67.7                   | 116                       |
| EP074-UT: Ethylbenzene                                    | 100-41-4             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.7   | 66.6                   | 115                       |
| EP074-UT: meta- & para-Xylene                             | 108-38-3<br>106-42-3 | 0.5        | mg/kg | <0.5                        | 4.2 mg/kg                             | 95.6   | 65.2                   | 112                       |
| EP074-UT: Styrene                                         | 100-42-5             | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.1   | 69.4                   | 111                       |
| EP074-UT: ortho-Xylene                                    | 95-47-6              | 0.5        | mg/kg | <0.5                        | 2.1 mg/kg                             | 94.0   | 68.4                   | 110                       |
| EP074H: Naphthalene (QCLot: 5133585)                      |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Naphthalene                                     | 91-20-3              | 1          | mg/kg | <1                          | 0.6 mg/kg                             | 95.5   | 72.3                   | 114                       |
| EP074I: Volatile Halogenated Compounds (QCLot: 5133585)   |                      |            |       |                             |                                       |        |                        |                           |
| EP074-UT: Vinyl chloride                                  | 75-01-4              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.2   | 47.0                   | 138                       |
| EP074-UT: 1,1-Dichloroethene                              | 75-35-4              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 92.1   | 57.6                   | 125                       |
| EP074-UT: Methylene chloride                              | 75-09-2              | 0.4        | mg/kg | <0.4                        | 2.1 mg/kg                             | 89.6   | 72.3                   | 115                       |
| EP074-UT: trans-1,2-Dichloroethene                        | 156-60-5             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.0   | 60.5                   | 122                       |
| EP074-UT: cis-1,2-Dichloroethene                          | 156-59-2             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 89.0   | 70.3                   | 112                       |
| EP074-UT: Chloroform                                      | 67-66-3              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.4   | 66.6                   | 115                       |
| EP074-UT: 1,1,1-Trichloroethane                           | 71-55-6              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 93.2   | 64.4                   | 122                       |
| EP074-UT: Carbon Tetrachloride                            | 56-23-5              | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 90.4   | 58.4                   | 127                       |
| EP074-UT: 1,2-Dichloroethane                              | 107-06-2             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 93.2   | 72.9                   | 114                       |
| EP074-UT: Trichloroethene                                 | 79-01-6              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 93.8   | 64.7                   | 115                       |
| EP074-UT: 1,1,2-Trichloroethane                           | 79-00-5              | 0.04       | mg/kg | <0.04                       | 0.1 mg/kg                             | 93.1   | 72.6                   | 116                       |
| EP074-UT: Tetrachloroethene                               | 127-18-4             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 97.1   | 60.0                   | 119                       |
| EP074-UT: 1,1,1,2-Tetrachloroethane                       | 630-20-6             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 92.0   | 71.8                   | 116                       |
| EP074-UT: 1,1,1,2,2-Tetrachloroethane                     | 79-34-5              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 89.8   | 66.1                   | 116                       |
| EP074-UT: Hexachlorobutadiene                             | 87-68-3              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.0   | 39.8                   | 128                       |
| EP074-UT: Chlorobenzene                                   | 108-90-7             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 94.6   | 70.3                   | 113                       |
| EP074-UT: 1,4-Dichlorobenzene                             | 106-46-7             | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 92.7   | 62.6                   | 113                       |
| EP074-UT: 1,2-Dichlorobenzene                             | 95-50-1              | 0.02       | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.0   | 70.8                   | 110                       |
| EP074-UT: 1,2,4-Trichlorobenzene                          | 120-82-1             | 0.01       | mg/kg | <0.01                       | 0.1 mg/kg                             | 89.4   | 48.4                   | 120                       |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589) |                      |            |       |                             |                                       |        |                        |                           |
| EP075-EM: 2-Chlorophenol                                  | 95-57-8              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 85.0   | 74.5                   | 126                       |
| EP075-EM: 2,4-Dichlorophenol                              | 120-83-2             | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 83.5   | 72.7                   | 126                       |
| EP075-EM: 2,6-Dichlorophenol                              | 87-65-0              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 83.5   | 73.5                   | 132                       |
| EP075-EM: 4-Chloro-3-methylphenol                         | 59-50-7              | 0.03       | mg/kg | <0.03                       | 2 mg/kg                               | 84.4   | 72.8                   | 128                       |

| 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                      |                                       |                           |                                   |     |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589) - continued |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: 2,4,5-Trichlorophenol                                       | 95-95-4               | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 83.5                      | 73.3                              | 134 |
| EP075-EM: 2,4,6-Trichlorophenol                                       | 88-06-2               | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 82.1                      | 72.4                              | 128 |
| EP075-EM: 2,3,5,6-Tetrachlorophenol                                   | 935-95-5              | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 79.1                      | 69.4                              | 126 |
| EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol                         | 4901-51-3/5<br>8-90-2 | 0.05 | mg/kg | <0.05                       | 4 mg/kg                               | 88.3                      | 71.9                              | 128 |
| EP075-EM: Pentachlorophenol                                           | 87-86-5               | 0.2  | mg/kg | <0.2                        | 4 mg/kg                               | 76.3                      | 54.4                              | 135 |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 5133589)         |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: Phenol                                                      | 108-95-2              | 1    | mg/kg | <1                          | 2 mg/kg                               | 85.6                      | 71.5                              | 130 |
| EP075-EM: 2-Methylphenol                                              | 95-48-7               | 1    | mg/kg | <1                          | 2 mg/kg                               | 86.5                      | 73.4                              | 129 |
| EP075-EM: 3- & 4-Methylphenol                                         | 1319-77-3             | 1    | mg/kg | <1                          | 4 mg/kg                               | 84.1                      | 74.3                              | 129 |
| EP075-EM: 2-Nitrophenol                                               | 88-75-5               | 1    | mg/kg | <1                          | 2 mg/kg                               | 90.8                      | 70.9                              | 133 |
| EP075-EM: 2,4-Dimethylphenol                                          | 105-67-9              | 1    | mg/kg | <1                          | 2 mg/kg                               | 78.5                      | 71.8                              | 132 |
| EP075-EM: 2,4-Dinitrophenol                                           | 51-28-5               | 5    | mg/kg | <5                          | 10 mg/kg                              | 81.5                      | 41.0                              | 156 |
| EP075-EM: 4-Nitrophenol                                               | 100-02-7              | 5    | mg/kg | <5                          | 10 mg/kg                              | 92.4                      | 65.3                              | 134 |
| EP075-EM: 2-Methyl-4,6-dinitrophenol                                  | 8071-51-0             | 5    | mg/kg | <5                          | 10 mg/kg                              | 86.2                      | 43.6                              | 128 |
| EP075-EM: Dinoseb                                                     | 88-85-7               | 5    | mg/kg | <5                          | 10 mg/kg                              | 84.3                      | 62.0                              | 128 |
| EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol                              | 131-89-5              | 5    | mg/kg | <5                          | 10 mg/kg                              | 77.1                      | 34.5                              | 137 |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5133589)            |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: Naphthalene                                                 | 91-20-3               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 87.7                      | 73.0                              | 131 |
| EP075-EM: Acenaphthene                                                | 83-32-9               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 85.5                      | 76.3                              | 130 |
| EP075-EM: Acenaphthylene                                              | 208-96-8              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 86.9                      | 72.0                              | 135 |
| EP075-EM: Fluorene                                                    | 86-73-7               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 88.2                      | 74.4                              | 131 |
| EP075-EM: Phenanthrene                                                | 85-01-8               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 87.9                      | 73.3                              | 130 |
| EP075-EM: Anthracene                                                  | 120-12-7              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 87.2                      | 78.4                              | 127 |
| EP075-EM: Fluoranthene                                                | 206-44-0              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 86.3                      | 75.3                              | 132 |
| EP075-EM: Pyrene                                                      | 129-00-0              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 86.7                      | 75.4                              | 130 |
| EP075-EM: Benz(a)anthracene                                           | 56-55-3               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 82.9                      | 69.6                              | 133 |
| EP075-EM: Chrysene                                                    | 218-01-9              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 87.3                      | 75.0                              | 133 |
| EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene                           | 205-99-2<br>207-08-9  | 1    | mg/kg | <1.0                        | 4 mg/kg                               | 85.9                      | 75.8                              | 133 |
| EP075-EM: Benzo(a)pyrene                                              | 50-32-8               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 84.8                      | 65.1                              | 130 |
| EP075-EM: Indeno(1,2,3.cd)pyrene                                      | 193-39-5              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 85.3                      | 72.1                              | 134 |
| EP075-EM: Dibenz(a,h)anthracene                                       | 53-70-3               | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 84.9                      | 72.9                              | 135 |
| EP075-EM: Benzo(g,h,i)perylene                                        | 191-24-2              | 0.5  | mg/kg | <0.5                        | 2 mg/kg                               | 84.8                      | 71.3                              | 134 |
| EP075I: Organochlorine Pesticides (QCLot: 5133589)                    |                       |      |       |                             |                                       |                           |                                   |     |



| 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                      |                                       |                           |                                        |     |
| EP075I: Organochlorine Pesticides (QCLot: 5133589) - continued                   |            |      |       |                             |                                       |                           |                                        |     |
| EP075-EM: alpha-BHC                                                              | 319-84-6   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.0                      | 71.0                                   | 129 |
| EP075-EM: Hexachlorobenzene (HCB)                                                | 118-74-1   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 85.7                      | 74.8                                   | 126 |
| EP075-EM: beta-BHC                                                               | 319-85-7   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.6                      | 75.7                                   | 130 |
| EP075-EM: gamma-BHC                                                              | 58-89-9    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 86.7                      | 70.8                                   | 130 |
| EP075-EM: delta-BHC                                                              | 319-86-8   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 87.1                      | 76.5                                   | 134 |
| EP075-EM: Heptachlor                                                             | 76-44-8    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.5                                   | 131 |
| EP075-EM: Aldrin                                                                 | 309-00-2   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 85.1                      | 76.8                                   | 130 |
| EP075-EM: Heptachlor epoxide                                                     | 1024-57-3  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.4                      | 73.6                                   | 130 |
| EP075-EM: cis-Chlordane                                                          | 5103-71-9  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.0                                   | 133 |
| EP075-EM: trans-Chlordane                                                        | 5103-74-2  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.8                      | 75.3                                   | 131 |
| EP075-EM: Endosulfan 1                                                           | 959-98-8   | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 93.8                      | 69.4                                   | 134 |
| EP075-EM: 4,4`-DDE                                                               | 72-55-9    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 85.7                      | 71.0                                   | 132 |
| EP075-EM: Dieldrin                                                               | 60-57-1    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 82.5                      | 78.0                                   | 133 |
| EP075-EM: Endrin aldehyde                                                        | 7421-93-4  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.7                      | 69.0                                   | 143 |
| EP075-EM: Endrin                                                                 | 72-20-8    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 90.1                      | 55.7                                   | 145 |
| EP075-EM: Endosulfan 2                                                           | 33213-65-9 | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 84.4                      | 71.4                                   | 135 |
| EP075-EM: 4,4`-DDD                                                               | 72-54-8    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 82.6                      | 74.8                                   | 134 |
| EP075-EM: Endosulfan sulfate                                                     | 1031-07-8  | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 83.0                      | 70.2                                   | 135 |
| EP075-EM: 4,4`-DDT                                                               | 50-29-3    | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 85.9                      | 77.7                                   | 133 |
| EP075-EM: Methoxychlor                                                           | 72-43-5    | 0.03 | mg/kg | <0.03                       | 2 mg/kg                               | 89.5                      | 63.6                                   | 135 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133253)                         |            |      |       |                             |                                       |                           |                                        |     |
| EP080: C6 - C9 Fraction                                                          | ----       | 10   | mg/kg | <10                         | 36 mg/kg                              | 81.2                      | 58.6                                   | 131 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133585)                         |            |      |       |                             |                                       |                           |                                        |     |
| EP074-UT: C6 - C9 Fraction                                                       | ----       | 10   | mg/kg | <10                         | 39.6 mg/kg                            | 100                       | 61.1                                   | 119 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133592)                         |            |      |       |                             |                                       |                           |                                        |     |
| EP071-EM: C10 - C14 Fraction                                                     | ----       | 50   | mg/kg | <50                         | 770 mg/kg                             | 96.2                      | 74.4                                   | 129 |
| EP071-EM: C15 - C28 Fraction                                                     | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 94.2                      | 81.0                                   | 123 |
| EP071-EM: C29 - C36 Fraction                                                     | ----       | 100  | mg/kg | <100                        | 1540 mg/kg                            | 98.5                      | 81.8                                   | 121 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5134352)                         |            |      |       |                             |                                       |                           |                                        |     |
| EP071: C10 - C14 Fraction                                                        | ----       | 50   | mg/kg | <50                         | 770 mg/kg                             | 99.1                      | 75.0                                   | 128 |
| EP071: C15 - C28 Fraction                                                        | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 97.4                      | 82.0                                   | 123 |
| EP071: C29 - C36 Fraction                                                        | ----       | 100  | mg/kg | <100                        | 1540 mg/kg                            | 102                       | 82.4                                   | 121 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133253) |            |      |       |                             |                                       |                           |                                        |     |
| EP080: C6 - C10 Fraction                                                         | C6_C10     | 10   | mg/kg | <10                         | 45 mg/kg                              | 84.5                      | 59.3                                   | 128 |

| Sub-Matrix: WATER                                                                |            |     |      | 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                      |                                       |                           |                                   |     |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5131510)                         |            |     |      |                             |                                       |                           |                                   |     |
| EP071: C10 - C14 Fraction                                                        | ----       | 50  | µg/L | <50                         | 4560 µg/L                             | 83.4                      | 47.2                              | 122 |
| EP071: C15 - C28 Fraction                                                        | ----       | 100 | µg/L | <100                        | 16200 µg/L                            | 89.9                      | 52.9                              | 131 |
| EP071: C29 - C36 Fraction                                                        | ----       | 50  | µg/L | <50                         | 8650 µg/L                             | 99.8                      | 50.4                              | 127 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5132259)                         |            |     |      |                             |                                       |                           |                                   |     |
| EP080: C6 - C9 Fraction                                                          | ----       | 20  | µg/L | <20                         | 360 µg/L                              | 95.6                      | 66.2                              | 134 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5131510) |            |     |      |                             |                                       |                           |                                   |     |
| EP071: >C10 - C16 Fraction                                                       | ----       | 100 | µg/L | <100                        | 6190 µg/L                             | 80.0                      | 49.1                              | 125 |
| EP071: >C16 - C34 Fraction                                                       | ----       | 100 | µg/L | <100                        | 22200 µg/L                            | 92.8                      | 51.6                              | 128 |
| EP071: >C34 - C40 Fraction                                                       | ----       | 100 | µg/L | <100                        | 1520 µg/L                             | 99.1                      | 47.2                              | 130 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5132259) |            |     |      |                             |                                       |                           |                                   |     |
| EP080: C6 - C10 Fraction                                                         | C6_C10     | 20  | µg/L | <20                         | 450 µg/L                              | 94.9                      | 66.2                              | 132 |
| EP080: BTEXN (QCLot: 5132259)                                                    |            |     |      |                             |                                       |                           |                                   |     |





Sub-Matrix: **WATER**

| Method: Compound CAS Number LOR Unit             |                      |   |      | Method Blank (MB) Report Result | Laboratory Control Spike (LCS) Report |                        |                       |      |
|--------------------------------------------------|----------------------|---|------|---------------------------------|---------------------------------------|------------------------|-----------------------|------|
|                                                  |                      |   |      |                                 | Spike Concentration                   | Spike Recovery (%) LCS | Acceptable Limits (%) |      |
|                                                  |                      |   |      |                                 |                                       |                        | Low                   | High |
| <b>EP080: BTEXN (QCLot: 5132259) - continued</b> |                      |   |      |                                 |                                       |                        |                       |      |
| EP080: Benzene                                   | 71-43-2              | 1 | µg/L | <1                              | 20 µg/L                               | 93.6                   | 68.8                  | 127  |
| EP080: Toluene                                   | 108-88-3             | 2 | µg/L | <2                              | 20 µg/L                               | 96.6                   | 72.9                  | 129  |
| EP080: Ethylbenzene                              | 100-41-4             | 2 | µg/L | <2                              | 20 µg/L                               | 97.2                   | 71.7                  | 130  |
| EP080: meta- & para-Xylene                       | 108-38-3<br>106-42-3 | 2 | µg/L | <2                              | 40 µg/L                               | 96.2                   | 72.3                  | 136  |
| EP080: ortho-Xylene                              | 95-47-6              | 2 | µg/L | <2                              | 20 µg/L                               | 97.3                   | 75.9                  | 134  |
| EP080: Naphthalene                               | 91-20-3              | 5 | µg/L | <5                              | 5 µg/L                                | 98.4                   | 68.3                  | 131  |

### 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**

| 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: 5133302)       |           |                                           |            |                          |                  |                       |      |
| EM2311363-011                                                 | Anonymous | EG005T: Arsenic                           | 7440-38-2  | 50 mg/kg                 | 87.1             | 78.0                  | 124  |
|                                                               |           | EG005T: Cadmium                           | 7440-43-9  | 50 mg/kg                 | 88.0             | 79.7                  | 116  |
|                                                               |           | EG005T: Chromium                          | 7440-47-3  | 50 mg/kg                 | 85.4             | 79.0                  | 121  |
|                                                               |           | EG005T: Copper                            | 7440-50-8  | 250 mg/kg                | 90.7             | 80.0                  | 120  |
|                                                               |           | EG005T: Lead                              | 7439-92-1  | 250 mg/kg                | 89.1             | 80.0                  | 120  |
|                                                               |           | EG005T: Nickel                            | 7440-02-0  | 50 mg/kg                 | 88.3             | 78.0                  | 120  |
|                                                               |           | EG005T: Zinc                              | 7440-66-6  | 250 mg/kg                | 85.6             | 80.0                  | 120  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 5133303)    |           |                                           |            |                          |                  |                       |      |
| EM2311363-011                                                 | Anonymous | EG035T: Mercury                           | 7439-97-6  | 0.5 mg/kg                | 91.2             | 76.0                  | 116  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5135815) |           |                                           |            |                          |                  |                       |      |
| EM2311403-002                                                 | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 63.2             | 58.0                  | 114  |
| EM2311403-002                                                 | Anonymous | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 75.4             | 58.0                  | 114  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 5137264) |           |                                           |            |                          |                  |                       |      |
| EM2311047-008                                                 | Anonymous | EK026SF: Total Cyanide                    | 57-12-5    | 20 mg/kg                 | 87.0             | 70.0                  | 130  |
| EK040T: Fluoride Total (QCLot: 5135812)                       |           |                                           |            |                          |                  |                       |      |
| EM2311047-008                                                 | Anonymous | EK040T: Fluoride                          | 16984-48-8 | 400 mg/kg                | 98.7             | 70.0                  | 130  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5133593)       |           |                                           |            |                          |                  |                       |      |
| EM2311316-007                                                 | Anonymous | EP066-EM: Total Polychlorinated biphenyls | ----       | 1 mg/kg                  | 95.2             | 59.6                  | 152  |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585)     |           |                                           |            |                          |                  |                       |      |
| EM2311353-010                                                 | Anonymous | EP074-UT: Benzene                         | 71-43-2    | 2 mg/kg                  | 92.6             | 53.7                  | 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 |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 5133585) - continued            |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: Toluene                 | 108-88-3   | 2 mg/kg                  | 93.0             | 55.1                  | 124  |
| EP074I: Volatile Halogenated Compounds (QCLot: 5133585)                          |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: 1,1-Dichloroethene      | 75-35-4    | 2 mg/kg                  | 88.6             | 38.4                  | 145  |
|                                                                                  |           | EP074-UT: Trichloroethene         | 79-01-6    | 2 mg/kg                  | 86.3             | 48.1                  | 128  |
|                                                                                  |           | EP074-UT: Chlorobenzene           | 108-90-7   | 2 mg/kg                  | 89.1             | 55.5                  | 122  |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 5133589)                        |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: 2-Chlorophenol          | 95-57-8    | 3 mg/kg                  | 91.5             | 44.0                  | 143  |
|                                                                                  |           | EP075-EM: 4-Chloro-3-methylphenol | 59-50-7    | 3 mg/kg                  | 88.7             | 41.5                  | 139  |
|                                                                                  |           | EP075-EM: Pentachlorophenol       | 87-86-5    | 3 mg/kg                  | 71.3             | 10.0                  | 144  |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 5133589)                    |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: Phenol                  | 108-95-2   | 3 mg/kg                  | 87.6             | 44.2                  | 134  |
|                                                                                  |           | EP075-EM: 2-Nitrophenol           | 88-75-5    | 3 mg/kg                  | 89.6             | 34.2                  | 129  |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 5133589)                       |           |                                   |            |                          |                  |                       |      |
| EM2311047-008                                                                    | Anonymous | EP075-EM: Acenaphthene            | 83-32-9    | 3 mg/kg                  | 89.3             | 42.6                  | 138  |
|                                                                                  |           | EP075-EM: Pyrene                  | 129-00-0   | 3 mg/kg                  | 89.6             | 37.8                  | 152  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133253)                         |           |                                   |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: C6 - C9 Fraction           | ----       | 28 mg/kg                 | 59.5             | 33.4                  | 124  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133585)                         |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: C6 - C9 Fraction        | ----       | 28 mg/kg                 | 78.6             | 42.3                  | 111  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5133592)                         |           |                                   |            |                          |                  |                       |      |
| EM2311316-001                                                                    | Anonymous | EP071-EM: C10 - C14 Fraction      | ----       | 770 mg/kg                | 98.2             | 71.3                  | 126  |
|                                                                                  |           | EP071-EM: C15 - C28 Fraction      | ----       | 2860 mg/kg               | 96.7             | 75.1                  | 123  |
|                                                                                  |           | EP071-EM: C29 - C36 Fraction      | ----       | 1540 mg/kg               | 101              | 78.1                  | 120  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5134352)                         |           |                                   |            |                          |                  |                       |      |
| EM2311363-010                                                                    | Anonymous | EP071: C10 - C14 Fraction         | ----       | 770 mg/kg                | 121              | 71.2                  | 125  |
|                                                                                  |           | EP071: C15 - C28 Fraction         | ----       | 2860 mg/kg               | 109              | 75.6                  | 122  |
|                                                                                  |           | EP071: C29 - C36 Fraction         | ----       | 1540 mg/kg               | # 127            | 78.0                  | 120  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133253) |           |                                   |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: C6 - C10 Fraction          | C6_C10     | 33 mg/kg                 | 55.6             | 30.8                  | 120  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133585) |           |                                   |            |                          |                  |                       |      |
| EM2311353-010                                                                    | Anonymous | EP074-UT: C6 - C10 Fraction       | C6_C10     | 33 mg/kg                 | 77.4             | 39.9                  | 109  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5133592) |           |                                   |            |                          |                  |                       |      |
| EM2311316-001                                                                    | Anonymous | EP071-EM: >C10 - C16 Fraction     | ----       | 1170 mg/kg               | 87.4             | 71.5                  | 130  |
|                                                                                  |           | EP071-EM: >C16 - C34 Fraction     | ----       | 3830 mg/kg               | 100              | 76.9                  | 119  |
|                                                                                  |           | EP071-EM: >C34 - C40 Fraction     | ----       | 290 mg/kg                | 78.9             | 65.3                  | 139  |

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 Work Order : EM2311383  
 Client : HELIA EHS PTY LTD  
 Project : 20220134



| Sub-Matrix: SOIL                                                                 |           |                            |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|-----------|----------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |           |                            |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID | Method: Compound           | CAS Number | Concentration            | MS               | Low                   | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5134352) |           |                            |            |                          |                  |                       |      |
| EM2311363-010                                                                    | Anonymous | EP071: >C10 - C16 Fraction | ----       | 1170 mg/kg               | 116              | 72.2                  | 128  |
|                                                                                  |           | EP071: >C16 - C34 Fraction | ----       | 3830 mg/kg               | 110              | 76.5                  | 119  |
|                                                                                  |           | EP071: >C34 - C40 Fraction | ----       | 290 mg/kg                | # Not Determined | 66.8                  | 138  |
| EP080: BTEXN (QCLot: 5133253)                                                    |           |                            |            |                          |                  |                       |      |
| EM2311353-005                                                                    | Anonymous | EP080: Benzene             | 71-43-2    | 2 mg/kg                  | 87.7             | 54.4                  | 127  |
|                                                                                  |           | EP080: Toluene             | 108-88-3   | 2 mg/kg                  | 82.8             | 57.1                  | 131  |

| Sub-Matrix: WATER                                                                |           |                          |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|-----------|--------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |           |                          |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID | Method: Compound         | CAS Number | Concentration            | MS               | Low                   | High |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 5132259)                         |           |                          |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: C6 - C9 Fraction  | ----       | 280 µg/L                 | 83.3             | 33.9                  | 126  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5132259) |           |                          |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: C6 - C10 Fraction | C6_C10     | 330 µg/L                 | 73.1             | 34.0                  | 122  |
| EP080: BTEXN (QCLot: 5132259)                                                    |           |                          |            |                          |                  |                       |      |
| EM2311416-001                                                                    | Anonymous | EP080: Benzene           | 71-43-2    | 20 µg/L                  | 99.4             | 56.3                  | 133  |
|                                                                                  |           | EP080: Toluene           | 108-88-3   | 20 µg/L                  | 104              | 60.4                  | 132  |



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

|              |                            |                         |                                    |
|--------------|----------------------------|-------------------------|------------------------------------|
| Work Order   | : EM2311383                | Page                    | : 1 of 10                          |
| Client       | : HELIA EHS PTY LTD        | Laboratory              | : Environmental Division Melbourne |
| Contact      | : ELLA DENTON              | Telephone               | : +61-3-8549 9600                  |
| Project      | : 20220134                 | Date Samples Received   | : 22-Jun-2023                      |
| Site         | : Hopetoun Park            | Issue Date              | : 03-Jul-2023                      |
| Sampler      | : Ella Denton/ Garry Masur | No. of samples received | : 18                               |
| Order number | : 20220134                 | No. of samples analysed | : 10                               |

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

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



### Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

| 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 | EM2311363--010       | Anonymous        | <b>C29 - C36 Fraction</b> | ----       | 127 % | 78.0-120% | <b>Recovery greater than upper data quality objective</b> |

### Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

| Quality Control Sample Type        | Count |         | Rate (%) |          | Quality Control Specification  |
|------------------------------------|-------|---------|----------|----------|--------------------------------|
| Method                             | QC    | Regular | Actual   | Expected |                                |
|                                    | 1     |         |          |          |                                |
| <b>Laboratory Duplicates (DUP)</b> |       |         |          |          |                                |
| TRH - Semivolatile Fraction        | 1     | 16      | 6.25     | 10.00    | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

| Quality Control Sample Type | Count |         | Rate (%) |          | Quality Control Specification  |
|-----------------------------|-------|---------|----------|----------|--------------------------------|
| Method                      | QC    | Regular | Actual   | Expected |                                |
|                             | 0     |         |          |          |                                |
| <b>Matrix Spikes (MS)</b>   |       |         |          |          |                                |
| TRH - Semivolatile Fraction | 0     | 8       | 0.00     | 5.00     | NEPM 2013 B3 & ALS QC Standard |

### Analysis Holding Time Compliance

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

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

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

Holding times for **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**

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 |
| EA001: pH in soil using 0.01M CaCl extract                                                                                     |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EA001)<br>SP01-1                                                                                 | 22-Jun-2023 | 28-Jun-2023              | 29-Jun-2023        | ✔          | 28-Jun-2023   | 28-Jun-2023      | ✔          |
| EA055: Moisture Content (Dried @ 105-110°C)                                                                                    |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EA055)<br>VAL01-1, VAL01-2,<br>VAL01-3, VAL01-4,<br>VAL01-5, VAL01-6,<br>SP01-1, SP01-6,<br>FD01 | 22-Jun-2023 | ----                     | ----               | ----       | 26-Jun-2023   | 06-Jul-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>SP01-1, SP01-6 | 22-Jun-2023 | 27-Jun-2023              | 19-Dec-2023        | ✓          | 27-Jun-2023   | 19-Dec-2023      | ✓          |
| EG035T: Total Recoverable Mercury by FIMS               |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG035T)<br>SP01-1, SP01-6 | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 28-Jun-2023   | 20-Jul-2023      | ✓          |
| EG048: Hexavalent Chromium (Alkaline Digest)            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG048G)<br>SP01-1         | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 28-Jun-2023   | 04-Jul-2023      | ✓          |
| EK026SF: Total CN by Segmented Flow Analyser            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK026SF)<br>SP01-1        | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 29-Jun-2023   | 11-Jul-2023      | ✓          |
| EK040T: Fluoride Total                                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK040T)<br>SP01-1         | 22-Jun-2023 | 27-Jun-2023              | 20-Jul-2023        | ✓          | 29-Jun-2023   | 20-Jul-2023      | ✓          |
| EP066: Polychlorinated Biphenyls (PCB)                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP066-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP074A: Monocyclic Aromatic Hydrocarbons                |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP074H: Naphthalene                                     |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP074I: Volatile Halogenated Compounds                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01-1       | 22-Jun-2023 | 26-Jun-2023              | 29-Jun-2023        | ✓          | 27-Jun-2023   | 29-Jun-2023      | ✓          |
| EP075A: Phenolic Compounds (Halogenated)                |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075A: Phenolic Compounds (Non-halogenated)            |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075B: Polynuclear Aromatic Hydrocarbons               |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-2023      | ✓          |
| EP075I: Organochlorine Pesticides                       |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01-1       | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✓          | 27-Jun-2023   | 06-Aug-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 (EP080)<br>VAL01-1, VAL01-3, VAL01-5, SP01-1, VAL01-2, VAL01-4, VAL01-6, FD01 |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071-EM)<br>SP01-1                                                          |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Aug-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 28-Jun-2023   | 06-Aug-2023      | ✔          |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions                                            |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP080)<br>VAL01-1, VAL01-3, VAL01-5, SP01-1, VAL01-2, VAL01-4, VAL01-6, FD01 |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071-EM)<br>SP01-1                                                          |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Aug-2023      | ✔          |
| Soil Glass Jar - Unpreserved (EP071)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 27-Jun-2023              | 06-Jul-2023        | ✔          | 28-Jun-2023   | 06-Aug-2023      | ✔          |
| EP080: BTEXN                                                                                               |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP080)<br>VAL01-1, VAL01-3, VAL01-5, FD01 VAL01-2, VAL01-4, VAL01-6,         |  | 22-Jun-2023 | 26-Jun-2023              | 06-Jul-2023        | ✔          | 27-Jun-2023   | 06-Jul-2023      | ✔          |

Matrix: **WATER**

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          |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>RB01 | 22-Jun-2023 | 23-Jun-2023              | 29-Jun-2023        | ✓          | 26-Jun-2023   | 02-Aug-2023      | ✓          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01   | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✓          | 24-Jun-2023   | 06-Jul-2023      | ✓          |



Matrix: WATER

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 Recoverable Hydrocarbons - NEPM 2013 Fractions |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>RB01                | 22-Jun-2023 | 23-Jun-2023              | 29-Jun-2023        | ✔          | 26-Jun-2023   | 02-Aug-2023      | ✔          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01                  | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✔          | 24-Jun-2023   | 06-Jul-2023      | ✔          |
| EP080: BTEXN                                                    |             |                          |                    |            |               |                  |            |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>RB01                  | 22-Jun-2023 | 24-Jun-2023              | 06-Jul-2023        | ✔          | 24-Jun-2023   | 06-Jul-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)                             |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Moisture Content                                        | EA055    | 4     | 33      | 12.12    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001    | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 10.00    | ✗          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 2     | 19      | 10.53    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 2     | 11      | 18.18    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS)                        |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001    | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB)                                      |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |



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 |                                |
| Method Blanks (MB) - Continued                          |          |       |         |          |          |            |                                |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS)                                      |          |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS                                   | EG035T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES                                 | EG005T   | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071    | 1     | 16      | 6.25     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080    | 1     | 19      | 5.26     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

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)      |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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) |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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)               |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 1     | 8       | 12.50    | 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)               |        |       |         |          |          |            |                                |
| TRH - Semivolatile Fraction      | EP071  | 0     | 8       | 0.00     | 5.00     | ✖          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX               | EP080  | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |



## Brief Method Summaries

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

| Analytical Methods                                      | Method   | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pH in soil using a 0.01M CaCl <sub>2</sub> extract      | EA001    | SOIL   | In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl <sub>2</sub> and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Moisture Content                                        | EA055    | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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)                                                                                                                                                                                                                                                                                                                                                                                  |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | SOIL   | In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Total Cyanide by Segmented Flow Analyser                | EK026SF  | SOIL   | In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3). |
| Total Fluoride                                          | EK040T   | SOIL   | (In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TRH - Semivolatile Fraction                             | EP071-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| Analytical Methods                                    | Method       | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile Organic Compounds - Ultra-trace              | EP074-UT     | SOIL   | In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).                                                                                                                                  |
| Volatile Organic Compounds - Ultra-trace - Summations | EP074-UT-SUM | SOIL   | Summation of MAHs and VHCs                                                                                                                                                                                                                                                                                                                                                                               |
| Semivolatile Organic Compounds - Waste Classification | EP075-EM     | 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).                                                                                                                                                                          |
| SVOC - Waste Classification (Sums)                    | EP075-EM-SUM | SOIL   | Summations for EP075 (EM variation)                                                                                                                                                                                                                                                                                                                                                                      |
| 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.                                                                                                                                                                      |
| TRH - Semivolatile Fraction                           | EP071        | WATER  | In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)                                                                                                                       |
| TRH Volatiles/BTEX                                    | EP080        | WATER  | In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3) |

| Preparation Methods                                        | Method    | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NaOH leach for CN in Soils                                 | CN-PR     | SOIL   | In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.                                                                                                                                                                                                                                                                                                                    |
| pH in soil using a 0.01M CaCl2 extract                     | EA001-PR  | SOIL   | In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                 |
| Alkaline digestion for Hexavalent Chromium                 | EG048PR   | SOIL   | In house: Referenced to USEPA SW846, Method 3060A.                                                                                                                                                                                                                                                                                                                                                   |
| Total Fluoride                                             | EK040T-PR | SOIL   | In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.                                                                                                                                                                                                                                                                                                                        |
| Hot Block Digest for metals in soils sediments and sludges | EN69      | SOIL   | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3). |
| Methanolic Extraction of Soils for Purge and Trap          | ORG16     | SOIL   | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.                                                                                                                                                                                                                                                    |
| Methanolic Extraction of Soils - Ultra-trace.              | ORG16-UT  | SOIL   | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.                                                                                                                                                                                                                                                    |
| Tumbler Extraction of Solids                               | ORG17     | SOIL   | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.                                                                                                                                                       |
| Tumbler Extraction of Solids - VIC EPA Screen              | ORG17-EM  | 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.                                                                                                                                                       |

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Client : HELIA EHS PTY LTD  
Project : 20220134



| Preparation Methods                     | Method  | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|---------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Separatory Funnel Extraction of Liquids | ORG14   | WATER  | In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container. |
| Volatiles Water Preparation             | ORG16-W | WATER  | A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.                                                                                                                                                                                                                                                                                            |



# CHAIN OF CUSTODY DOCUMENTATION

|                                               |  |                                                                   |  |                                                                                                                                                                                |
|-----------------------------------------------|--|-------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT: Helia EHS Pty Ltd                     |  | SAMPLER: Ella Denton / Garry Masur                                |  | <br><b>Australian Laboratory Services Pty Ltd</b><br>2-4 Westall Road, Springvale, VIC 3171 |
| ADDRESS / OFFICE: 423 CITY RD SOUTH MELBOURNE |  | MOBILE: 0473998907                                                |  |                                                                                                                                                                                |
| PROJECT MANAGER (PM): Ella Denton             |  | PHONE:                                                            |  |                                                                                                                                                                                |
| PROJECT ID: 20220134                          |  | EMAIL REPORT TO: ella.denton@heliaebs.au, garry.masur@heliaebs.au |  |                                                                                                                                                                                |
| SITE: Hopetoun Park                           |  | P.O. NO.: 20220134                                                |  | EMAIL INVOICE TO: <a href="mailto:accounts@heliaebs.au">accounts@heliaebs.au</a>                                                                                               |

RESULTS REQUIRED (Date): 5 Day TAT (29/6) QUOTE NO: MEB Q-108-21 ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

|                                                                                                                                   |                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------------------------------------------------|
| <b>FOR LABORATORY USE ONLY</b><br>COOLER SEAL (circle appropriate)<br>Intact: Yes No N/A<br>SAMPLE TEMPERATURE<br>CHILLED: Yes No | COMMENTS / SPECIAL HANDLING / STORAGE OR DIPOAL: |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Notes: e.g. Highly contaminated sample<br>e.g. "High PAHs expected".<br>Extra volume for QC or trace LORs etc. |
|                                                                                                                                   |                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                |
|                                                                                                                                   |                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                |
|                                                                                                                                   |                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                |

| SAMPLE INFORMATION (note: S = Soil, W=Water) |           |        |        |      | CONTAINER INFORMATION |               |                                               |                |                    |                |  |  |  |  |  |  |  |  |  |   |      |
|----------------------------------------------|-----------|--------|--------|------|-----------------------|---------------|-----------------------------------------------|----------------|--------------------|----------------|--|--|--|--|--|--|--|--|--|---|------|
| ALS ID                                       | SAMPLE ID | MATRIX | DATE   | Time | Type / Code           | Total bottles | P-30/4 EPA 1828.2 Table 3 Fill Material Suite | S-4 TRH, BTEXN | S-3 NEPM 15 Metals | W-4 TRH, BTEXN |  |  |  |  |  |  |  |  |  |   | HOLD |
| 1                                            | VAL01-1   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 2                                            | VAL01-2   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 3                                            | VAL01-3   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 4                                            | VAL01-4   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 5                                            | VAL01-5   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 6                                            | VAL01-6   | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 7                                            | SP01-1    | S      | 22-Jun |      |                       | 1             | X                                             |                |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 8                                            | SP01-2    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 9                                            | SP01-3    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 10                                           | SP01-4    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 11                                           | SP01-5    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 12                                           | SP01-6    | S      | 22-Jun |      |                       | 1             |                                               |                | X                  |                |  |  |  |  |  |  |  |  |  |   |      |
| 13                                           | SP01-7    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 14                                           | SP01-8    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 15                                           | SP01-9    | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 16                                           | SP01-10   | S      | 22-Jun |      |                       | 1             |                                               |                |                    |                |  |  |  |  |  |  |  |  |  | X |      |
| 17                                           | FD01      | S      | 22-Jun |      |                       | 1             |                                               | X              |                    |                |  |  |  |  |  |  |  |  |  |   |      |
| 18                                           | RB01      | W      | 22-Jun |      |                       | 1             |                                               |                |                    | X              |  |  |  |  |  |  |  |  |  |   |      |

|                   |                  |              |       |                    |  |
|-------------------|------------------|--------------|-------|--------------------|--|
| RELINQUISHED BY:  |                  | RECEIVED BY: |       | METHOD OF SHIPMENT |  |
| Name: Ella Denton | Date: 22/06/2023 | Name:        | Date: | Con' Note No:      |  |
| Of: Helia EHS     | Time: 12:15 PM   | Of:          | Time: |                    |  |
| Name:             | Date:            | Name:        | Date: | Transport Co:      |  |
| Of:               | Time:            | Of:          | Time: |                    |  |

**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; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; 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 Bad for Acid Sulphate Soils; B = Unpreserved Bag.

Environmental Division  
Melbourne  
Work Order Reference  
**EM2311383**



Telephone: + 61-3-8549 9600

*mom (m) 22/6, 13:30*

## CERTIFICATE OF ANALYSIS

|                                |                                          |                                |                                                     |
|--------------------------------|------------------------------------------|--------------------------------|-----------------------------------------------------|
| <b>Work Order</b>              | <b>: EM2211061</b>                       | <b>Page</b>                    | <b>: 1 of 37</b>                                    |
| <b>Client</b>                  | <b>: EDGE GROUP PTY LTD</b>              | <b>Laboratory</b>              | <b>: Environmental Division Melbourne</b>           |
| <b>Contact</b>                 | <b>: NATASHA DUN</b>                     | <b>Contact</b>                 | <b>: Hannah White</b>                               |
| <b>Address</b>                 | <b>: 423 City Rd<br/>South Melbourne</b> | <b>Address</b>                 | <b>: 4 Westall Rd Springvale VIC Australia 3171</b> |
| <b>Telephone</b>               | <b>: ----</b>                            | <b>Telephone</b>               | <b>: +61-3-8549 9600</b>                            |
| <b>Project</b>                 | <b>: 20220134</b>                        | <b>Date Samples Received</b>   | <b>: 10-Jun-2022 13:25</b>                          |
| <b>Order number</b>            | <b>: ----</b>                            | <b>Date Analysis Commenced</b> | <b>: 14-Jun-2022</b>                                |
| <b>C-O-C number</b>            | <b>: ----</b>                            | <b>Issue Date</b>              | <b>: 24-Jun-2022 12:22</b>                          |
| <b>Sampler</b>                 | <b>: GM and ED</b>                       |                                |                                                     |
| <b>Site</b>                    | <b>: Hopetoun Park</b>                   |                                |                                                     |
| <b>Quote number</b>            | <b>: MEBQ/108/21 Primary Work</b>        |                                |                                                     |
| <b>No. of samples received</b> | <b>: 49</b>                              |                                |                                                     |
| <b>No. of samples analysed</b> | <b>: 27</b>                              |                                |                                                     |



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.

| <i>Signatories</i>  | <i>Position</i>                     | <i>Accreditation Category</i>              |
|---------------------|-------------------------------------|--------------------------------------------|
| Aleksandar Vujkovic | Laboratory Technician               | Newcastle - Inorganics, Mayfield West, NSW |
| Dilani Fernando     | Laboratory Coordinator              | Melbourne Inorganics, Springvale, VIC      |
| Franco Lentini      | LCMS Coordinator                    | Sydney Organics, Smithfield, NSW           |
| Jarwis Nheu         | Senior Inorganic Chemist            | Melbourne Inorganics, Springvale, VIC      |
| Nancy Wang          | 2IC Organic Chemist                 | Melbourne Inorganics, Springvale, VIC      |
| Nancy Wang          | 2IC Organic Chemist                 | Melbourne Organics, Springvale, VIC        |
| Nikki Stepniewski   | Senior Inorganic Instrument Chemist | Melbourne Inorganics, Springvale, VIC      |
| Xing Lin            | Senior Organic Chemist              | Melbourne Organics, Springvale, VIC        |



## 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: Poor matrix spike recoveries for Picloram and Clopyralid due to matrix effects.
- EP202: Particular samples required dilution due to matrix interferences. LOR values have been adjusted accordingly.
- EG020-T: Metals for EM2211061 #46 has been confirmed by re-preparation and re-analysis.
- ALS is not NATA accredited for the analysis of Exchangeable Cations on Alkaline Soils when performed under ALS Method ED006.
- 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.
- EP074-UT: 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 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.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EG005-T : EM2211035 #1 Poor duplicate precision for total Lead due to sample matrix. Confirmed by re-digestion and re-analysis.
- EG005-T : EM2211035#13 Poor duplicate precision for total Zinc due to sample matrix. Confirmed by re-digestion and re-analysis.
- EG005-T : EM2211061#14 results for total Manganese have been confirmed by re-digestion and re-analysis. It's been noticed that repeated result were greatly vary. Repeated Manganese were: 47 mg/kg, 89 mg/kg, 157 mg/kg, and 124 mg/kg.
- EG005-T : EM2211525 #10 Poor duplicate precision for total Manganese due to sample matrix. Confirmed by re-digestion and re-analysis.
- EP075(SIM): EM2211061\_033 required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.
- EP075-EM: EM2211035\_001 Poor duplicate precision due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- EP075-EM: EM221035\_012 Poor matrix spike recovery due to matrix effects.
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCl - Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity (H+ + Al3+).





## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                  |            |      |       | Sample ID | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5        |
|---------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                            | CAS Number | LOR  | Unit  |           | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |
|                                                                     |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>                  |            |      |       |           |                   |                   |                   |                   |                   |
| Moisture Content                                                    | ----       | 1.0  | %     |           | 6.8               | 24.2              | 5.1               | 6.2               | 5.5               |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| Arsenic                                                             | 7440-38-2  | 5    | mg/kg |           | <5                | 9                 | <5                | <5                | <5                |
| Barium                                                              | 7440-39-3  | 10   | mg/kg |           | 60                | 110               | ----              | ----              | 10                |
| Beryllium                                                           | 7440-41-7  | 1    | mg/kg |           | 1                 | 2                 | ----              | ----              | <1                |
| Boron                                                               | 7440-42-8  | 50   | mg/kg |           | <50               | <50               | ----              | ----              | <50               |
| Cadmium                                                             | 7440-43-9  | 1    | mg/kg |           | <1                | <1                | <1                | <1                | <1                |
| Chromium                                                            | 7440-47-3  | 2    | mg/kg |           | 23                | 40                | 13                | 9                 | 8                 |
| Cobalt                                                              | 7440-48-4  | 2    | mg/kg |           | 18                | 14                | ----              | ----              | <2                |
| Copper                                                              | 7440-50-8  | 5    | mg/kg |           | 25                | 14                | 15                | 14                | <5                |
| Lead                                                                | 7439-92-1  | 5    | mg/kg |           | 5                 | 13                | <5                | <5                | <5                |
| Manganese                                                           | 7439-96-5  | 5    | mg/kg |           | 450               | 177               | ----              | ----              | 26                |
| Nickel                                                              | 7440-02-0  | 2    | mg/kg |           | 52                | 38                | 37                | 39                | 2                 |
| Selenium                                                            | 7782-49-2  | 5    | mg/kg |           | <5                | <5                | ----              | ----              | <5                |
| Vanadium                                                            | 7440-62-2  | 5    | mg/kg |           | 34                | 54                | ----              | ----              | 20                |
| Zinc                                                                | 7440-66-6  | 5    | mg/kg |           | 44                | 22                | 34                | 27                | <5                |
| <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>EG048: Hexavalent Chromium (Alkaline Digest)</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Hexavalent Chromium                                                 | 18540-29-9 | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| <b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b> |            |      |       |           |                   |                   |                   |                   |                   |
| Weak Acid Dissociable Cyanide                                       | ----       | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| <b>EP066: Polychlorinated Biphenyls (PCB)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| Total Polychlorinated biphenyls                                     | ----       | 0.1  | mg/kg |           | <0.1              | ----              | ----              | ----              | ----              |
| <b>EP068A: Organochlorine Pesticides (OC)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| alpha-BHC                                                           | 319-84-6   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Hexachlorobenzene (HCB)                                             | 118-74-1   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| beta-BHC                                                            | 319-85-7   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| gamma-BHC                                                           | 58-89-9    | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| delta-BHC                                                           | 319-86-8   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Heptachlor                                                          | 76-44-8    | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Aldrin                                                              | 309-00-2   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Heptachlor epoxide                                                  | 1024-57-3  | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| trans-Chlordane                                                     | 5103-74-2  | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                      |      |       | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5        |
|-----------------------------------------------------------|----------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                      |                      |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                  | CAS Number           | LOR  | Unit  | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |
|                                                           |                      |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                      |      |       |                   |                   |                   |                   |                   |
| alpha-Endosulfan                                          | 959-98-8             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| cis-Chlordane                                             | 5103-71-9            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Dieldrin                                                  | 60-57-1              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDE                                                  | 72-55-9              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endrin                                                    | 72-20-8              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| beta-Endosulfan                                           | 33213-65-9           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Endosulfan (sum)                                        | 115-29-7             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDD                                                  | 72-54-8              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endrin aldehyde                                           | 7421-93-4            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endosulfan sulfate                                        | 1031-07-8            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDT                                                  | 50-29-3              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Endrin ketone                                             | 53494-70-5           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Methoxychlor                                              | 72-43-5              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Mirex                                                     | 2385-85-5            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1     | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                      |      |       |                   |                   |                   |                   |                   |
| Dichlorvos                                                | 62-73-7              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Demeton-S-methyl                                          | 919-86-8             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Monocrotophos                                             | 6923-22-4            | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Dimethoate                                                | 60-51-5              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Diazinon                                                  | 333-41-5             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorpyrifos-methyl                                       | 5598-13-0            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Parathion-methyl                                          | 298-00-0             | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Malathion                                                 | 121-75-5             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Fenthion                                                  | 55-38-9              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorpyrifos                                              | 2921-88-2            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Parathion                                                 | 56-38-2              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Pirimphos-ethyl                                           | 23505-41-1           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorfenvinphos                                           | 470-90-6             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Bromophos-ethyl                                           | 4824-78-6            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Fenamiphos                                                | 22224-92-6           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Prothiofos                                                | 34643-46-4           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Ethion                                                    | 563-12-2             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |                   |      |       | Sample ID | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5        |
|-------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                        |                   |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                    | CAS Number        | LOR  | Unit  |           | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |
|                                                             |                   |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP068B: Organophosphorus Pesticides (OP) - Continued</b> |                   |      |       |           |                   |                   |                   |                   |                   |
| Carbophenothion                                             | 786-19-6          | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Azinphos Methyl                                             | 86-50-0           | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068C: Triazines</b>                                    |                   |      |       |           |                   |                   |                   |                   |                   |
| Atrazine                                                    | 1912-24-9         | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068D: Pyrethroids</b>                                  |                   |      |       |           |                   |                   |                   |                   |                   |
| Bifenthrin                                                  | 82657-04-3        | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP069: Toxaphene</b>                                     |                   |      |       |           |                   |                   |                   |                   |                   |
| Toxaphene                                                   | 8001-35-2         | 2    | mg/kg |           | <2                | ----              | ----              | ----              | ----              |
| <b>EP075(SIM)A: Phenolic Compounds</b>                      |                   |      |       |           |                   |                   |                   |                   |                   |
| Phenol                                                      | 108-95-2          | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2-Chlorophenol                                              | 95-57-8           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2-Methylphenol                                              | 95-48-7           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 3- & 4-Methylphenol                                         | 1319-77-3         | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| 2-Nitrophenol                                               | 88-75-5           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2,4-Dimethylphenol                                          | 105-67-9          | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2,4-Dichlorophenol                                          | 120-83-2          | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2,6-Dichlorophenol                                          | 87-65-0           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 4-Chloro-3-methylphenol                                     | 59-50-7           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2,4,6-Trichlorophenol                                       | 88-06-2           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| 2,4,5-Trichlorophenol                                       | 95-95-4           | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Pentachlorophenol                                           | 87-86-5           | 2    | mg/kg |           | <2                | ----              | ----              | ----              | ----              |
| <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              | ----              |
| 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              | ----              |
| Benzo(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              | ----              |

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                              |                   |     |       | Sample ID         | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5 |
|-----------------------------------------------------------------|-------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| Sampling date / time                                            |                   |     |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |            |
| Compound                                                        | CAS Number        | LOR | Unit  | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |            |
|                                                                 |                   |     |       | Result            | Result            | Result            | Result            | Result            |            |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued      |                   |     |       |                   |                   |                   |                   |                   |            |
| 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 | 0.6               | ----              | 0.6               | 0.6               | ----              |            |
| ^ Benzo(a)pyrene TEQ (LOR)                                      | ----              | 0.5 | mg/kg | 1.2               | ----              | 1.2               | 1.2               | ----              |            |
| EP080/071: Total Petroleum Hydrocarbons                         |                   |     |       |                   |                   |                   |                   |                   |            |
| 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               | ----              |            |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions |                   |     |       |                   |                   |                   |                   |                   |            |
| 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               | ----              |            |
| EP080: BTEXN                                                    |                   |     |       |                   |                   |                   |                   |                   |            |
| 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                | ----              |            |
| EP202A: Phenoxvacetic Acid Herbicides by LCMS                   |                   |     |       |                   |                   |                   |                   |                   |            |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                               |            |      |       | Sample ID | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5        |
|------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                             |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                         | CAS Number | LOR  | Unit  |           | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |
|                                                                  |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS - Continued</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>EP066S: PCB Surrogate</b>                                     |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | 105               | ----              | ----              | ----              | ----              |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                |            |      |       |           |                   |                   |                   |                   |                   |
| Dibromo-DDE                                                      | 21655-73-2 | 0.05 | %     |           | 108               | ----              | ----              | ----              | ----              |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>              |            |      |       |           |                   |                   |                   |                   |                   |
| DEF                                                              | 78-48-8    | 0.05 | %     |           | 62.9              | ----              | ----              | ----              | ----              |
| <b>EP069: Surrogate</b>                                          |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | 103               | ----              | ----              | ----              | ----              |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Phenol-d6                                                        | 13127-88-3 | 0.5  | %     |           | 86.0              | ----              | 82.5              | 84.7              | ----              |
| 2-Chlorophenol-D4                                                | 93951-73-6 | 0.5  | %     |           | 86.8              | ----              | 84.3              | 86.7              | ----              |
| 2,4,6-Tribromophenol                                             | 118-79-6   | 0.5  | %     |           | 68.4              | ----              | 66.1              | 66.2              | ----              |
| <b>EP075(SIM)T: PAH Surrogates</b>                               |            |      |       |           |                   |                   |                   |                   |                   |
| 2-Fluorobiphenyl                                                 | 321-60-8   | 0.5  | %     |           | 95.3              | ----              | 93.0              | 95.2              | ----              |
| Anthracene-d10                                                   | 1719-06-8  | 0.5  | %     |           | 92.6              | ----              | 90.0              | 92.8              | ----              |
| 4-Terphenyl-d14                                                  | 1718-51-0  | 0.5  | %     |           | 92.1              | ----              | 89.6              | 92.2              | ----              |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                            |            |      |       |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                            | 17060-07-0 | 0.2  | %     |           | 90.4              | ----              | 80.8              | 88.2              | ----              |
| Toluene-D8                                                       | 2037-26-5  | 0.2  | %     |           | 92.6              | ----              | 75.0              | 97.3              | ----              |
| 4-Bromofluorobenzene                                             | 460-00-4   | 0.2  | %     |           | 98.0              | ----              | 88.3              | 97.0              | ----              |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                |            |      |      | BH01 - 0.1        | BH01 - 0.5        | BH02 - 0.1        | BH03 - 0.1        | BH03 - 0.5        |
|------------------------------------------------|------------|------|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                           |            |      |      | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                       | CAS Number | LOR  | Unit | EM2211061-001     | EM2211061-002     | EM2211061-004     | EM2211061-007     | EM2211061-008     |
| Result                                         |            |      |      | Result            | Result            | Result            | Result            | Result            |
| EP202S: Phenoxyacetic Acid Herbicide Surrogate |            |      |      |                   |                   |                   |                   |                   |
| 2,4-Dichlorophenyl Acetic Acid                 | 19719-28-9 | 0.02 | %    | 72.7              | ----              | ----              | ----              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                       |            |       |          | Sample ID | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1        |
|----------------------------------------------------------|------------|-------|----------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                     |            |       |          |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                 | CAS Number | LOR   | Unit     |           | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |
|                                                          |            |       |          | Result    | Result            | Result            | Result            | Result            | Result            |
| <b>EA001: pH in soil using 0.01M CaCl extract</b>        |            |       |          |           |                   |                   |                   |                   |                   |
| pH (CaCl2)                                               | ----       | 0.1   | pH Unit  | ----      | ----              | ----              | ----              | ----              | 8.2               |
| <b>EA002-AD: pH (Soils) dried at 40°C</b>                |            |       |          |           |                   |                   |                   |                   |                   |
| pH Value                                                 | ----       | 0.1   | pH Unit  | ----      | ----              | ----              | ----              | ----              | 9.0               |
| <b>EA010-AD: Conductivity (Soils) dried at 40°C</b>      |            |       |          |           |                   |                   |                   |                   |                   |
| Electrical Conductivity @ 25°C                           | ----       | 1     | µS/cm    | ----      | ----              | ----              | ----              | ----              | 615               |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>       |            |       |          |           |                   |                   |                   |                   |                   |
| Moisture Content                                         | ----       | 1.0   | %        | 14.3      | 18.8              | 18.1              | 7.8               | 10.9              |                   |
| <b>EA150: Soil Classification based on Particle Size</b> |            |       |          |           |                   |                   |                   |                   |                   |
| Clay (<2 µm)                                             | ----       | 1     | %        | ----      | ----              | ----              | ----              | ----              | 17                |
| <b>EA152: Soil Particle Density</b>                      |            |       |          |           |                   |                   |                   |                   |                   |
| Soil Particle Density (Clay/Silt/Sand)                   | ----       | 0.01  | g/cm3    | ----      | ----              | ----              | ----              | ----              | 2.69              |
| <b>ED006: Exchangeable Cations on Alkaline Soils</b>     |            |       |          |           |                   |                   |                   |                   |                   |
| ∅ Exchangeable Calcium                                   | ----       | 0.2   | meq/100g | ----      | ----              | ----              | ----              | ----              | 4.7               |
| ∅ Exchangeable Magnesium                                 | ----       | 0.2   | meq/100g | ----      | ----              | ----              | ----              | ----              | 4.4               |
| ∅ Exchangeable Potassium                                 | ----       | 0.2   | meq/100g | ----      | ----              | ----              | ----              | ----              | 1.0               |
| ∅ Exchangeable Sodium                                    | ----       | 0.2   | meq/100g | ----      | ----              | ----              | ----              | ----              | 2.2               |
| ∅ Cation Exchange Capacity                               | ----       | 0.2   | meq/100g | ----      | ----              | ----              | ----              | ----              | 12.4              |
| ∅ Exchangeable Calcium Percent                           | ----       | 0.2   | %        | ----      | ----              | ----              | ----              | ----              | 38.0              |
| ∅ Exchangeable Magnesium Percent                         | ----       | 0.2   | %        | ----      | ----              | ----              | ----              | ----              | 35.7              |
| ∅ Exchangeable Potassium Percent                         | ----       | 0.2   | %        | ----      | ----              | ----              | ----              | ----              | 8.1               |
| ∅ Exchangeable Sodium Percent                            | ----       | 0.2   | %        | ----      | ----              | ----              | ----              | ----              | 18.2              |
| ∅ Calcium/Magnesium Ratio                                | ----       | 0.2   | -        | ----      | ----              | ----              | ----              | ----              | 1.1               |
| ∅ Magnesium/Potassium Ratio                              | ----       | 0.2   | -        | ----      | ----              | ----              | ----              | ----              | 4.4               |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>            |            |       |          |           |                   |                   |                   |                   |                   |
| Arsenic                                                  | 7440-38-2  | 5     | mg/kg    | <5        | <5                | 6                 | <5                | <5                |                   |
| Barium                                                   | 7440-39-3  | 10    | mg/kg    | ----      | ----              | 40                | ----              | 110               |                   |
| Beryllium                                                | 7440-41-7  | 1     | mg/kg    | ----      | ----              | <1                | ----              | <1                |                   |
| Boron                                                    | 7440-42-8  | 50    | mg/kg    | ----      | ----              | <50               | ----              | <50               |                   |
| Cadmium                                                  | 7440-43-9  | 1     | mg/kg    | <1        | <1                | <1                | <1                | <1                |                   |
| Chromium                                                 | 7440-47-3  | 2     | mg/kg    | 16        | 19                | 42                | 14                | 17                |                   |
| Cobalt                                                   | 7440-48-4  | 2     | mg/kg    | ----      | ----              | 15                | ----              | 19                |                   |
| Copper                                                   | 7440-50-8  | 5     | mg/kg    | 9         | 10                | 8                 | 20                | 19                |                   |
| Iron                                                     | 7439-89-6  | 0.005 | %        | ----      | ----              | ----              | ----              | 2.58              |                   |
| Lead                                                     | 7439-92-1  | 5     | mg/kg    | 6         | 6                 | 8                 | 15                | 8                 |                   |





## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                  |            |      |       | Sample ID | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1        |
|---------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                            | CAS Number | LOR  | Unit  |           | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |
|                                                                     |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EG005(ED093)T: Total Metals by ICP-AES - Continued</b>           |            |      |       |           |                   |                   |                   |                   |                   |
| Manganese                                                           | 7439-96-5  | 5    | mg/kg |           | ----              | ----              | 89                | ----              | 691               |
| Nickel                                                              | 7440-02-0  | 2    | mg/kg |           | 18                | 26                | 29                | 34                | 79                |
| Selenium                                                            | 7782-49-2  | 5    | mg/kg |           | ----              | ----              | <5                | ----              | <5                |
| Vanadium                                                            | 7440-62-2  | 5    | mg/kg |           | ----              | ----              | 64                | ----              | 16                |
| Zinc                                                                | 7440-66-6  | 5    | mg/kg |           | 16                | 18                | 9                 | 52                | 52                |
| <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>EG048: Hexavalent Chromium (Alkaline Digest)</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Hexavalent Chromium                                                 | 18540-29-9 | 0.5  | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| <b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b> |            |      |       |           |                   |                   |                   |                   |                   |
| Weak Acid Dissociable Cyanide                                       | ----       | 1    | mg/kg |           | ----              | ----              | ----              | ----              | <1                |
| <b>EP004: Organic Matter</b>                                        |            |      |       |           |                   |                   |                   |                   |                   |
| Organic Matter                                                      | ----       | 0.5  | %     |           | ----              | ----              | ----              | ----              | 1.0               |
| Total Organic Carbon                                                | ----       | 0.5  | %     |           | ----              | ----              | ----              | ----              | 0.6               |
| <b>EP066: Polychlorinated Biphenyls (PCB)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| Total Polychlorinated biphenyls                                     | ----       | 0.1  | mg/kg |           | ----              | ----              | ----              | ----              | <0.1              |
| <b>EP068A: Organochlorine Pesticides (OC)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| alpha-BHC                                                           | 319-84-6   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Hexachlorobenzene (HCB)                                             | 118-74-1   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| beta-BHC                                                            | 319-85-7   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| gamma-BHC                                                           | 58-89-9    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| delta-BHC                                                           | 319-86-8   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Heptachlor                                                          | 76-44-8    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Aldrin                                                              | 309-00-2   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Heptachlor epoxide                                                  | 1024-57-3  | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| trans-Chlordane                                                     | 5103-74-2  | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| alpha-Endosulfan                                                    | 959-98-8   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| cis-Chlordane                                                       | 5103-71-9  | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Dieldrin                                                            | 60-57-1    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| 4,4'-DDE                                                            | 72-55-9    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| Endrin                                                              | 72-20-8    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| beta-Endosulfan                                                     | 33213-65-9 | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| ^ Endosulfan (sum)                                                  | 115-29-7   | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |
| 4,4'-DDD                                                            | 72-54-8    | 0.05 | mg/kg |           | ----              | ----              | ----              | ----              | <0.05             |



| Sub-Matrix: SOIL<br>(Matrix: SOIL)                 |                          |      |       | Sample ID         | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1 |
|----------------------------------------------------|--------------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| Sampling date / time                               |                          |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |            |
| Compound                                           | CAS Number               | LOR  | Unit  | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |            |
|                                                    |                          |      |       | Result            | Result            | Result            | Result            | Result            |            |
| EP068A: Organochlorine Pesticides (OC) - Continued |                          |      |       |                   |                   |                   |                   |                   |            |
| Endrin aldehyde                                    | 7421-93-4                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Endosulfan sulfate                                 | 1031-07-8                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| 4,4'-DDT                                           | 50-29-3                  | 0.2  | mg/kg | ----              | ----              | ----              | ----              | <0.2              |            |
| Endrin ketone                                      | 53494-70-5               | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Methoxychlor                                       | 72-43-5                  | 0.2  | mg/kg | ----              | ----              | ----              | ----              | <0.2              |            |
| Mirex                                              | 2385-85-5                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| ^ Sum of Aldrin + Dieldrin                         | 309-00-2/60-57-1         | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| ^ Sum of DDD + DDE + DDT                           | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| EP068B: Organophosphorus Pesticides (OP)           |                          |      |       |                   |                   |                   |                   |                   |            |
| Dichlorvos                                         | 62-73-7                  | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Demeton-S-methyl                                   | 919-86-8                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Monocrotophos                                      | 6923-22-4                | 0.2  | mg/kg | ----              | ----              | ----              | ----              | <0.2              |            |
| Dimethoate                                         | 60-51-5                  | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Diazinon                                           | 333-41-5                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Chlorpyrifos-methyl                                | 5598-13-0                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Parathion-methyl                                   | 298-00-0                 | 0.2  | mg/kg | ----              | ----              | ----              | ----              | <0.2              |            |
| Malathion                                          | 121-75-5                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Fenthion                                           | 55-38-9                  | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Chlorpyrifos                                       | 2921-88-2                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Parathion                                          | 56-38-2                  | 0.2  | mg/kg | ----              | ----              | ----              | ----              | <0.2              |            |
| Pirimphos-ethyl                                    | 23505-41-1               | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Chlorfenvinphos                                    | 470-90-6                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Bromophos-ethyl                                    | 4824-78-6                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Fenamiphos                                         | 22224-92-6               | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Prothiofos                                         | 34643-46-4               | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Ethion                                             | 563-12-2                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Carbophenothion                                    | 786-19-6                 | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| Azinphos Methyl                                    | 86-50-0                  | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| EP068C: Triazines                                  |                          |      |       |                   |                   |                   |                   |                   |            |
| Atrazine                                           | 1912-24-9                | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| EP068D: Pyrethroids                                |                          |      |       |                   |                   |                   |                   |                   |            |
| Bifenthrin                                         | 82657-04-3               | 0.05 | mg/kg | ----              | ----              | ----              | ----              | <0.05             |            |
| EP069: Toxaphene                                   |                          |      |       |                   |                   |                   |                   |                   |            |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                    |                   |     |       | Sample ID | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1        |
|-------------------------------------------------------|-------------------|-----|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                  |                   |     |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                              | CAS Number        | LOR | Unit  |           | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |
|                                                       |                   |     |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP069: Toxaphene - Continued</b>                   |                   |     |       |           |                   |                   |                   |                   |                   |
| Toxaphene                                             | 8001-35-2         | 2   | mg/kg |           | ----              | ----              | ----              | ----              | <2                |
| <b>EP075(SIM)A: Phenolic Compounds</b>                |                   |     |       |           |                   |                   |                   |                   |                   |
| Phenol                                                | 108-95-2          | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2-Chlorophenol                                        | 95-57-8           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2-Methylphenol                                        | 95-48-7           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 3- & 4-Methylphenol                                   | 1319-77-3         | 1   | mg/kg |           | ----              | ----              | ----              | ----              | <1                |
| 2-Nitrophenol                                         | 88-75-5           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2,4-Dimethylphenol                                    | 105-67-9          | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2,4-Dichlorophenol                                    | 120-83-2          | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2,6-Dichlorophenol                                    | 87-65-0           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 4-Chloro-3-methylphenol                               | 59-50-7           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2,4,6-Trichlorophenol                                 | 88-06-2           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| 2,4,5-Trichlorophenol                                 | 95-95-4           | 0.5 | mg/kg |           | ----              | ----              | ----              | ----              | <0.5              |
| Pentachlorophenol                                     | 87-86-5           | 2   | mg/kg |           | ----              | ----              | ----              | ----              | <2                |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b> |                   |     |       |           |                   |                   |                   |                   |                   |
| Naphthalene                                           | 91-20-3           | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Acenaphthylene                                        | 208-96-8          | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Acenaphthene                                          | 83-32-9           | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Fluorene                                              | 86-73-7           | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Phenanthrene                                          | 85-01-8           | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Anthracene                                            | 120-12-7          | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Fluoranthene                                          | 206-44-0          | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Pyrene                                                | 129-00-0          | 0.5 | mg/kg |           | <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              |
| Chrysene                                              | 218-01-9          | 0.5 | mg/kg |           | <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              |
| Benzo(k)fluoranthene                                  | 207-08-9          | 0.5 | mg/kg |           | <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              |
| Indeno(1.2.3.cd)pyrene                                | 193-39-5          | 0.5 | mg/kg |           | <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              |
| Benzo(g,h,i)perylene                                  | 191-24-2          | 0.5 | mg/kg |           | <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              |
| ^ Benzo(a)pyrene TEQ (zero)                           | ----              | 0.5 | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| ^ Benzo(a)pyrene TEQ (half LOR)                       | ----              | 0.5 | mg/kg |           | 0.6               | 0.6               | ----              | 0.6               | 0.6               |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                     |                   |      |       | Sample ID | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1        |
|------------------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |                   |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                               | CAS Number        | LOR  | Unit  |           | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |
|                                                                        |                   |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |      |       |           |                   |                   |                   |                   |                   |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5  | mg/kg |           | 1.2               | 1.2               | ----              | 1.2               | 1.2               |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |      |       |           |                   |                   |                   |                   |                   |
| C6 - C9 Fraction                                                       | ----              | 10   | mg/kg |           | <10               | <10               | ----              | <10               | <10               |
| C10 - C14 Fraction                                                     | ----              | 50   | mg/kg |           | <50               | <50               | ----              | <50               | <50               |
| C15 - C28 Fraction                                                     | ----              | 100  | mg/kg |           | <100              | <100              | ----              | <100              | <100              |
| C29 - C36 Fraction                                                     | ----              | 100  | mg/kg |           | <100              | <100              | ----              | <100              | <100              |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50   | mg/kg |           | <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               |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10   | mg/kg |           | <10               | <10               | ----              | <10               | <10               |
| >C10 - C16 Fraction                                                    | ----              | 50   | mg/kg |           | <50               | <50               | ----              | <50               | <50               |
| >C16 - C34 Fraction                                                    | ----              | 100  | mg/kg |           | <100              | <100              | ----              | <100              | <100              |
| >C34 - C40 Fraction                                                    | ----              | 100  | mg/kg |           | <100              | <100              | ----              | <100              | <100              |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50   | mg/kg |           | <50               | <50               | ----              | <50               | <50               |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50   | mg/kg |           | <50               | <50               | ----              | <50               | <50               |
| <b>EP080: BTEXN</b>                                                    |                   |      |       |           |                   |                   |                   |                   |                   |
| Benzene                                                                | 71-43-2           | 0.2  | mg/kg |           | <0.2              | <0.2              | ----              | <0.2              | <0.2              |
| Toluene                                                                | 108-88-3          | 0.5  | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Ethylbenzene                                                           | 100-41-4          | 0.5  | mg/kg |           | <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              |
| ortho-Xylene                                                           | 95-47-6           | 0.5  | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| ^ Sum of BTEX                                                          | ----              | 0.2  | mg/kg |           | <0.2              | <0.2              | ----              | <0.2              | <0.2              |
| ^ Total Xylenes                                                        | ----              | 0.5  | mg/kg |           | <0.5              | <0.5              | ----              | <0.5              | <0.5              |
| Naphthalene                                                            | 91-20-3           | 1    | mg/kg |           | <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             |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                               |            |      |       | Sample ID | BH04 - 0.1        | BH05 - 0.1        | BH05 - 0.5        | BH06 - 0.1        | BH07 - 0.1        |
|------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                             |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                         | CAS Number | LOR  | Unit  |           | EM2211061-010     | EM2211061-013     | EM2211061-014     | EM2211061-016     | EM2211061-019     |
|                                                                  |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS - Continued</b> |            |      |       |           |                   |                   |                   |                   |                   |
| 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>EP066S: PCB Surrogate</b>                                     |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | ----              | ----              | ----              | ----              | 97.4              |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                |            |      |       |           |                   |                   |                   |                   |                   |
| Dibromo-DDE                                                      | 21655-73-2 | 0.05 | %     |           | ----              | ----              | ----              | ----              | 97.9              |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>              |            |      |       |           |                   |                   |                   |                   |                   |
| DEF                                                              | 78-48-8    | 0.05 | %     |           | ----              | ----              | ----              | ----              | 62.4              |
| <b>EP069: Surrogate</b>                                          |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | ----              | ----              | ----              | ----              | 94.2              |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Phenol-d6                                                        | 13127-88-3 | 0.5  | %     |           | 85.6              | 78.1              | ----              | 82.0              | 84.2              |
| 2-Chlorophenol-D4                                                | 93951-73-6 | 0.5  | %     |           | 87.1              | 79.8              | ----              | 81.7              | 85.2              |
| 2,4,6-Tribromophenol                                             | 118-79-6   | 0.5  | %     |           | 64.6              | 63.9              | ----              | 64.9              | 69.0              |
| <b>EP075(SIM)T: PAH Surrogates</b>                               |            |      |       |           |                   |                   |                   |                   |                   |
| 2-Fluorobiphenyl                                                 | 321-60-8   | 0.5  | %     |           | 94.8              | 90.0              | ----              | 91.2              | 92.8              |
| Anthracene-d10                                                   | 1719-06-8  | 0.5  | %     |           | 91.4              | 87.0              | ----              | 88.7              | 90.3              |
| 4-Terphenyl-d14                                                  | 1718-51-0  | 0.5  | %     |           | 90.9              | 87.7              | ----              | 88.0              | 90.5              |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                            |            |      |       |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                            | 17060-07-0 | 0.2  | %     |           | 85.1              | 77.7              | ----              | 84.3              | 90.0              |
| Toluene-D8                                                       | 2037-26-5  | 0.2  | %     |           | 91.5              | 82.1              | ----              | 86.9              | 99.8              |
| 4-Bromofluorobenzene                                             | 460-00-4   | 0.2  | %     |           | 95.0              | 84.1              | ----              | 91.9              | 99.8              |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>            |            |      |       |           |                   |                   |                   |                   |                   |
| 2,4-Dichlorophenyl Acetic Acid                                   | 19719-28-9 | 0.02 | %     |           | ----              | ----              | ----              | ----              | 83.5              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                  |            |     |         | Sample ID | SP01              | SP03              | SP05              | SP07              | SP09              |
|-----------------------------------------------------|------------|-----|---------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                |            |     |         |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                            | CAS Number | LOR | Unit    |           | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                     |            |     |         |           | Result            | Result            | Result            | Result            | Result            |
| <b>EA001: pH in soil using 0.01M CaCl extract</b>   |            |     |         |           |                   |                   |                   |                   |                   |
| pH (CaCl2)                                          | ----       | 0.1 | pH Unit |           | 7.5               | ----              | ----              | ----              | ----              |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>  |            |     |         |           |                   |                   |                   |                   |                   |
| Moisture Content                                    | ----       | 1.0 | %       |           | 7.4               | 7.3               | 15.8              | 5.7               | 5.5               |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>       |            |     |         |           |                   |                   |                   |                   |                   |
| Arsenic                                             | 7440-38-2  | 5   | mg/kg   |           | 8                 | 6                 | 7                 | 5                 | 6                 |
| Barium                                              | 7440-39-3  | 10  | mg/kg   |           | ----              | 80                | ----              | ----              | ----              |
| Beryllium                                           | 7440-41-7  | 1   | mg/kg   |           | ----              | <1                | ----              | ----              | ----              |
| Boron                                               | 7440-42-8  | 50  | mg/kg   |           | ----              | <50               | ----              | ----              | ----              |
| Cadmium                                             | 7440-43-9  | 1   | mg/kg   |           | <1                | <1                | <1                | <1                | <1                |
| Chromium                                            | 7440-47-3  | 2   | mg/kg   |           | ----              | 31                | 52                | 28                | 31                |
| Cobalt                                              | 7440-48-4  | 2   | mg/kg   |           | ----              | 12                | ----              | ----              | ----              |
| Copper                                              | 7440-50-8  | 5   | mg/kg   |           | 14                | 12                | 20                | 11                | 13                |
| Lead                                                | 7439-92-1  | 5   | mg/kg   |           | 13                | 13                | 14                | 13                | 12                |
| Manganese                                           | 7439-96-5  | 5   | mg/kg   |           | ----              | 256               | ----              | ----              | ----              |
| Molybdenum                                          | 7439-98-7  | 2   | mg/kg   |           | <2                | ----              | ----              | ----              | ----              |
| Nickel                                              | 7440-02-0  | 2   | mg/kg   |           | 33                | 27                | 51                | 24                | 28                |
| Selenium                                            | 7782-49-2  | 5   | mg/kg   |           | <5                | <5                | ----              | ----              | ----              |
| Silver                                              | 7440-22-4  | 2   | mg/kg   |           | <2                | ----              | ----              | ----              | ----              |
| Tin                                                 | 7440-31-5  | 5   | mg/kg   |           | <5                | ----              | ----              | ----              | ----              |
| Vanadium                                            | 7440-62-2  | 5   | mg/kg   |           | ----              | 34                | ----              | ----              | ----              |
| Zinc                                                | 7440-66-6  | 5   | mg/kg   |           | 36                | 36                | 33                | 31                | 36                |
| <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>EG048: Hexavalent Chromium (Alkaline Digest)</b> |            |     |         |           |                   |                   |                   |                   |                   |
| Hexavalent Chromium                                 | 18540-29-9 | 0.5 | mg/kg   |           | <0.5              | ----              | ----              | ----              | ----              |
| <b>EK026SF: Total CN by Segmented Flow Analyser</b> |            |     |         |           |                   |                   |                   |                   |                   |
| Total Cyanide                                       | 57-12-5    | 1   | mg/kg   |           | <1                | ----              | ----              | ----              | ----              |
| <b>EK040T: Fluoride Total</b>                       |            |     |         |           |                   |                   |                   |                   |                   |
| Fluoride                                            | 16984-48-8 | 40  | mg/kg   |           | 180               | ----              | ----              | ----              | ----              |
| <b>EP066: Polychlorinated Biphenyls (PCB)</b>       |            |     |         |           |                   |                   |                   |                   |                   |
| Total Polychlorinated biphenyls                     | ----       | 0.1 | mg/kg   |           | <0.1              | ----              | ----              | ----              | ----              |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons</b>     |            |     |         |           |                   |                   |                   |                   |                   |
| Benzene                                             | 71-43-2    | 0.2 | mg/kg   |           | <0.2              | ----              | ----              | ----              | ----              |
| Toluene                                             | 108-88-3   | 0.5 | mg/kg   |           | <0.5              | ----              | ----              | ----              | ----              |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                             |                   |      |       | SP01              | SP03              | SP05              | SP07              | SP09              |
|-------------------------------------------------------------|-------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                        |                   |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                    | CAS Number        | LOR  | Unit  | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                             |                   |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons - Continued</b> |                   |      |       |                   |                   |                   |                   |                   |
| Ethylbenzene                                                | 100-41-4          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| meta- & para-Xylene                                         | 108-38-3 106-42-3 | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Styrene                                                     | 100-42-5          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| ortho-Xylene                                                | 95-47-6           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| ^ Sum of monocyclic aromatic hydrocarbons                   | ----              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| ^ Total Xylenes                                             | ----              | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| <b>EP074H: Naphthalene</b>                                  |                   |      |       |                   |                   |                   |                   |                   |
| Naphthalene                                                 | 91-20-3           | 1    | mg/kg | <1                | ----              | ----              | ----              | ----              |
| <b>EP074I: Volatile Halogenated Compounds</b>               |                   |      |       |                   |                   |                   |                   |                   |
| Vinyl chloride                                              | 75-01-4           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,1-Dichloroethene                                          | 75-35-4           | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| Methylene chloride                                          | 75-09-2           | 0.4  | mg/kg | <0.4              | ----              | ----              | ----              | ----              |
| trans-1,2-Dichloroethene                                    | 156-60-5          | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| cis-1,2-Dichloroethene                                      | 156-59-2          | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| Chloroform                                                  | 67-66-3           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,1,1-Trichloroethane                                       | 71-55-6           | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| Carbon Tetrachloride                                        | 56-23-5           | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| 1,2-Dichloroethane                                          | 107-06-2          | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| Trichloroethene                                             | 79-01-6           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,1,2-Trichloroethane                                       | 79-00-5           | 0.04 | mg/kg | <0.04             | ----              | ----              | ----              | ----              |
| Tetrachloroethene                                           | 127-18-4          | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,1,1,2-Tetrachloroethane                                   | 630-20-6          | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| 1,1,2,2-Tetrachloroethane                                   | 79-34-5           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| Hexachlorobutadiene                                         | 87-68-3           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| Chlorobenzene                                               | 108-90-7          | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,4-Dichlorobenzene                                         | 106-46-7          | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,2-Dichlorobenzene                                         | 95-50-1           | 0.02 | mg/kg | <0.02             | ----              | ----              | ----              | ----              |
| 1,2,4-Trichlorobenzene                                      | 120-82-1          | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| ^ Sum of volatile chlorinated hydrocarbons                  | ----              | 0.01 | mg/kg | <0.01             | ----              | ----              | ----              | ----              |
| <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              |
| Acenaphthene                                                | 83-32-9           | 0.5  | mg/kg | ----              | ----              | <0.5              | <0.5              | <0.5              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                |                   |      |       | Sample ID | SP01              | SP03              | SP05              | SP07              | SP09              |
|-------------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                              |                   |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                          | CAS Number        | LOR  | Unit  |           | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                                   |                   |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b> |                   |      |       |           |                   |                   |                   |                   |                   |
| 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>EP075A: Phenolic Compounds (Halogenated)</b>                   |                   |      |       |           |                   |                   |                   |                   |                   |
| 2-Chlorophenol                                                    | 95-57-8           | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| 2,4-Dichlorophenol                                                | 120-83-2          | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| 2,6-Dichlorophenol                                                | 87-65-0           | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| 4-Chloro-3-methylphenol                                           | 59-50-7           | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| 2,4,5-Trichlorophenol                                             | 95-95-4           | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| 2,4,6-Trichlorophenol                                             | 88-06-2           | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| 2,3,5,6-Tetrachlorophenol                                         | 935-95-5          | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| 2,3,4,5 & 2,3,4,6-Tetrachlorophenol                               | 4901-51-3/58-90-2 | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Pentachlorophenol                                                 | 87-86-5           | 0.2  | mg/kg |           | <0.2              | ----              | ----              | ----              | ----              |
| ^ Sum of Phenols (halogenated)                                    | ----              | 0.03 | mg/kg |           | <0.03             | ----              | ----              | ----              | ----              |
| <b>EP075A: Phenolic Compounds (Non-halogenated)</b>               |                   |      |       |           |                   |                   |                   |                   |                   |
| Phenol                                                            | 108-95-2          | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| 2-Methylphenol                                                    | 95-48-7           | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| 3- & 4-Methylphenol                                               | 1319-77-3         | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| 2-Nitrophenol                                                     | 88-75-5           | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| 2,4-Dimethylphenol                                                | 105-67-9          | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                 |                   |      |       | SP01              | SP03              | SP05              | SP07              | SP09              |
|-----------------------------------------------------------------|-------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                            |                   |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                        | CAS Number        | LOR  | Unit  | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                                 |                   |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP075A: Phenolic Compounds (Non-halogenated) - Continued</b> |                   |      |       |                   |                   |                   |                   |                   |
| 2,4-Dinitrophenol                                               | 51-28-5           | 5    | mg/kg | <5                | ----              | ----              | ----              | ----              |
| 4-Nitrophenol                                                   | 100-02-7          | 5    | mg/kg | <5                | ----              | ----              | ----              | ----              |
| 2-Methyl-4,6-dinitrophenol                                      | 8071-51-0         | 5    | mg/kg | <5                | ----              | ----              | ----              | ----              |
| Dinoseb                                                         | 88-85-7           | 5    | mg/kg | <5                | ----              | ----              | ----              | ----              |
| 2-Cyclohexyl-4,6-Dinitrophenol                                  | 131-89-5          | 5    | mg/kg | <5                | ----              | ----              | ----              | ----              |
| ^ Sum of Phenols (non-halogenated)                              | ----              | 1    | mg/kg | <1                | ----              | ----              | ----              | ----              |
| <b>EP075B: Polynuclear Aromatic Hydrocarbons</b>                |                   |      |       |                   |                   |                   |                   |                   |
| Naphthalene                                                     | 91-20-3           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Acenaphthene                                                    | 83-32-9           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Acenaphthylene                                                  | 208-96-8          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Fluorene                                                        | 86-73-7           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Phenanthrene                                                    | 85-01-8           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Anthracene                                                      | 120-12-7          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Fluoranthene                                                    | 206-44-0          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Pyrene                                                          | 129-00-0          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(a)anthracene                                              | 56-55-3           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Chrysene                                                        | 218-01-9          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(b+j) & Benzo(k)fluoranthene                               | 205-99-2 207-08-9 | 1.0  | mg/kg | <1.0              | ----              | ----              | ----              | ----              |
| Benzo(a)pyrene                                                  | 50-32-8           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Indeno(1,2,3-cd)pyrene                                          | 193-39-5          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Dibenz(a,h)anthracene                                           | 53-70-3           | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(g,h,i)perylene                                            | 191-24-2          | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| ^ Sum of polycyclic aromatic hydrocarbons                       | ----              | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (zero)                                     | ----              | 0.5  | mg/kg | <0.5              | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (half LOR)                                 | ----              | 0.5  | mg/kg | 0.6               | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (LOR)                                      | ----              | 0.5  | mg/kg | 1.2               | ----              | ----              | ----              | ----              |
| <b>EP075I: Organochlorine Pesticides</b>                        |                   |      |       |                   |                   |                   |                   |                   |
| alpha-BHC                                                       | 319-84-6          | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Hexachlorobenzene (HCB)                                         | 118-74-1          | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| beta-BHC                                                        | 319-85-7          | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| gamma-BHC                                                       | 58-89-9           | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| delta-BHC                                                       | 319-86-8          | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Heptachlor                                                      | 76-44-8           | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |





## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                                        |             |      |       | SP01              | SP03              | SP05              | SP07              | SP09              |
|------------------------------------------------------------------------|-------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |             |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                               | CAS Number  | LOR  | Unit  | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                                        |             |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP075I: Organochlorine Pesticides - Continued</b>                   |             |      |       |                   |                   |                   |                   |                   |
| Aldrin                                                                 | 309-00-2    | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Heptachlor epoxide                                                     | 1024-57-3   | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| cis-Chlordane                                                          | 5103-71-9   | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| trans-Chlordane                                                        | 5103-74-2   | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Endosulfan 1                                                           | 959-98-8    | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| 4,4'-DDE                                                               | 72-55-9     | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Dieldrin                                                               | 60-57-1     | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Endrin aldehyde                                                        | 7421-93-4   | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Endrin                                                                 | 72-20-8     | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| Endosulfan 2                                                           | 33213-65-9  | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| 4,4'-DDD                                                               | 72-54-8     | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endosulfan sulfate                                                     | 1031-07-8   | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| 4,4'-DDT                                                               | 50-29-3     | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Methoxychlor                                                           | 72-43-5     | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| ^ Sum of organochlorine pesticides                                     | ----        | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| ^ Chlordane                                                            | 57-74-9     | 0.03 | mg/kg | <0.03             | ----              | ----              | ----              | ----              |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |             |      |       |                   |                   |                   |                   |                   |
| C6 - C9 Fraction                                                       | ----        | 10   | mg/kg | ----              | ----              | <10               | <10               | <10               |
| C6 - C9 Fraction                                                       | ----        | 10   | mg/kg | <10               | ----              | ----              | ----              | ----              |
| C10 - C14 Fraction                                                     | ----        | 50   | mg/kg | ----              | ----              | <50               | <50               | <50               |
| C10 - C14 Fraction                                                     | ----        | 50   | mg/kg | <50               | ----              | ----              | ----              | ----              |
| C6 - C10 Fraction                                                      | C6_C10      | 10   | mg/kg | <10               | ----              | ----              | ----              | ----              |
| C15 - C28 Fraction                                                     | ----        | 100  | mg/kg | ----              | ----              | <100              | <100              | <100              |
| C15 - C28 Fraction                                                     | ----        | 100  | mg/kg | <100              | ----              | ----              | ----              | ----              |
| C29 - C36 Fraction                                                     | ----        | 100  | mg/kg | ----              | ----              | <100              | <100              | <100              |
| C29 - C36 Fraction                                                     | ----        | 100  | mg/kg | <100              | ----              | ----              | ----              | ----              |
| ^ C10 - C36 Fraction (sum)                                             | ----        | 50   | mg/kg | ----              | ----              | <50               | <50               | <50               |
| ^ C10 - C36 Fraction (sum)                                             | ----        | 50   | mg/kg | <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               |
| >C10 - C16 Fraction                                                    | ----        | 50   | mg/kg | <50               | ----              | ----              | ----              | ----              |
| >C16 - C34 Fraction                                                    | ----        | 100  | mg/kg | ----              | ----              | <100              | <100              | <100              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                                 |                   |     |       | Sample ID | SP01              | SP03              | SP05              | SP07              | SP09              |
|------------------------------------------------------------------------------------|-------------------|-----|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                               |                   |     |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                                           | CAS Number        | LOR | Unit  |           | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                                                    |                   |     |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued</b> |                   |     |       |           |                   |                   |                   |                   |                   |
| >C16 - C34 Fraction                                                                | ----              | 100 | mg/kg |           | <100              | ----              | ----              | ----              | ----              |
| >C34 - C40 Fraction                                                                | ----              | 100 | mg/kg |           | ----              | ----              | <100              | <100              | <100              |
| >C34 - C40 Fraction                                                                | ----              | 100 | mg/kg |           | <100              | ----              | ----              | ----              | ----              |
| ^ >C10 - C40 Fraction (sum)                                                        | ----              | 50  | mg/kg |           | ----              | ----              | <50               | <50               | <50               |
| ^ >C10 - C40 Fraction (sum)                                                        | ----              | 50  | mg/kg |           | <50               | ----              | ----              | ----              | ----              |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                                       | ----              | 50  | mg/kg |           | ----              | ----              | <50               | <50               | <50               |
| >C10 - C16 Fraction minus Naphthalene (F2)                                         | ----              | 50  | mg/kg |           | <50               | ----              | ----              | ----              | ----              |
| C6 - C10 Fraction minus BTEX (F1)                                                  | C6_C10-BTEX       | 10  | mg/kg |           | <10               | ----              | ----              | ----              | ----              |
| <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>EP066S: PCB Surrogate</b>                                                       |                   |     |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                                                 | 2051-24-3         | 0.1 | %     |           | 88.8              | ----              | ----              | ----              | ----              |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                                        |                   |     |       |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                                              | 17060-07-0        | 0.1 | %     |           | 81.1              | ----              | ----              | ----              | ----              |
| Toluene-D8                                                                         | 2037-26-5         | 0.1 | %     |           | 83.8              | ----              | ----              | ----              | ----              |
| 4-Bromofluorobenzene                                                               | 460-00-4          | 0.1 | %     |           | 91.9              | ----              | ----              | ----              | ----              |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>                                   |                   |     |       |           |                   |                   |                   |                   |                   |
| Phenol-d6                                                                          | 13127-88-3        | 0.5 | %     |           | ----              | ----              | 87.2              | 85.4              | 83.3              |
| 2-Chlorophenol-D4                                                                  | 93951-73-6        | 0.5 | %     |           | ----              | ----              | 86.8              | 81.4              | 85.8              |
| 2,4,6-Tribromophenol                                                               | 118-79-6          | 0.5 | %     |           | ----              | ----              | 65.4              | 80.1              | 67.4              |
| <b>EP075(SIM)T: PAH Surrogates</b>                                                 |                   |     |       |           |                   |                   |                   |                   |                   |
| 2-Fluorobiphenyl                                                                   | 321-60-8          | 0.5 | %     |           | ----              | ----              | 95.5              | 87.9              | 94.9              |
| Anthracene-d10                                                                     | 1719-06-8         | 0.5 | %     |           | ----              | ----              | 93.3              | 91.2              | 92.7              |
| 4-Terphenyl-d14                                                                    | 1718-51-0         | 0.5 | %     |           | ----              | ----              | 92.5              | 88.8              | 93.2              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                        |            |       |      | Sample ID | SP01              | SP03              | SP05              | SP07              | SP09              |
|---------------------------------------------------------------------------|------------|-------|------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                      |            |       |      |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                                  | CAS Number | LOR   | Unit |           | EM2211061-020     | EM2211061-022     | EM2211061-024     | EM2211061-026     | EM2211061-028     |
|                                                                           |            |       |      |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |       |      |           |                   |                   |                   |                   |                   |
| Phenol-d6                                                                 | 13127-88-3 | 0.025 | %    |           | 98.7              | ----              | ----              | ----              | ----              |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 0.025 | %    |           | 90.2              | ----              | ----              | ----              | ----              |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 0.025 | %    |           | 92.2              | ----              | ----              | ----              | ----              |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |       |      |           |                   |                   |                   |                   |                   |
| Nitrobenzene-D5                                                           | 4165-60-0  | 0.025 | %    |           | 93.1              | ----              | ----              | ----              | ----              |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 0.025 | %    |           | 86.3              | ----              | ----              | ----              | ----              |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 0.025 | %    |           | 96.1              | ----              | ----              | ----              | ----              |
| Anthracene-d10                                                            | 1719-06-8  | 0.025 | %    |           | 96.7              | ----              | ----              | ----              | ----              |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 0.025 | %    |           | 88.7              | ----              | ----              | ----              | ----              |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |       |      |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 0.2   | %    |           | ----              | ----              | 90.4              | 83.6              | 92.3              |
| Toluene-D8                                                                | 2037-26-5  | 0.2   | %    |           | ----              | ----              | 97.1              | 72.5              | 94.7              |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 0.2   | %    |           | ----              | ----              | 98.0              | 74.2              | 97.9              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                   |            |       |          | Sample ID | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5        |
|------------------------------------------------------|------------|-------|----------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                 |            |       |          |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                             | CAS Number | LOR   | Unit     |           | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |
|                                                      |            |       |          | Result    | Result            | Result            | Result            | Result            | Result            |
| <b>EA001: pH in soil using 0.01M CaCl extract</b>    |            |       |          |           |                   |                   |                   |                   |                   |
| pH (CaCl2)                                           | ----       | 0.1   | pH Unit  |           | ----              | 8.4               | ----              | ----              | ----              |
| <b>EA002-AD: pH (Soils) dried at 40°C</b>            |            |       |          |           |                   |                   |                   |                   |                   |
| pH Value                                             | ----       | 0.1   | pH Unit  |           | ----              | 9.3               | ----              | ----              | ----              |
| <b>EA010-AD: Conductivity (Soils) dried at 40°C</b>  |            |       |          |           |                   |                   |                   |                   |                   |
| Electrical Conductivity @ 25°C                       | ----       | 1     | µS/cm    |           | ----              | 1560              | ----              | ----              | ----              |
| <b>EA055: Moisture Content</b>                       |            |       |          |           |                   |                   |                   |                   |                   |
| Moisture Content                                     | ----       | 1.0   | %        |           | ----              | ----              | ----              | ----              | 20.8              |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>   |            |       |          |           |                   |                   |                   |                   |                   |
| Moisture Content                                     | ----       | 1.0   | %        |           | 8.2               | 13.9              | 2.6               | 3.2               | ----              |
| <b>ED006: Exchangeable Cations on Alkaline Soils</b> |            |       |          |           |                   |                   |                   |                   |                   |
| ∅ Exchangeable Calcium                               | ----       | 0.2   | meq/100g |           | ----              | 3.9               | ----              | ----              | ----              |
| ∅ Exchangeable Magnesium                             | ----       | 0.2   | meq/100g |           | ----              | 13.4              | ----              | ----              | ----              |
| ∅ Exchangeable Potassium                             | ----       | 0.2   | meq/100g |           | ----              | 2.1               | ----              | ----              | ----              |
| ∅ Exchangeable Sodium                                | ----       | 0.2   | meq/100g |           | ----              | 10.0              | ----              | ----              | ----              |
| ∅ Cation Exchange Capacity                           | ----       | 0.2   | meq/100g |           | ----              | 29.5              | ----              | ----              | ----              |
| ∅ Exchangeable Calcium Percent                       | ----       | 0.2   | %        |           | ----              | 13.2              | ----              | ----              | ----              |
| ∅ Exchangeable Magnesium Percent                     | ----       | 0.2   | %        |           | ----              | 45.6              | ----              | ----              | ----              |
| ∅ Exchangeable Potassium Percent                     | ----       | 0.2   | %        |           | ----              | 7.3               | ----              | ----              | ----              |
| ∅ Exchangeable Sodium Percent                        | ----       | 0.2   | %        |           | ----              | 33.9              | ----              | ----              | ----              |
| ∅ Calcium/Magnesium Ratio                            | ----       | 0.2   | -        |           | ----              | 0.3               | ----              | ----              | ----              |
| ∅ Magnesium/Potassium Ratio                          | ----       | 0.2   | -        |           | ----              | 6.3               | ----              | ----              | ----              |
| <b>EG005(ED093)T: Total Metals by ICP-AES</b>        |            |       |          |           |                   |                   |                   |                   |                   |
| Arsenic                                              | 7440-38-2  | 5     | mg/kg    |           | <5                | 8                 | <5                | 6                 | <5                |
| Barium                                               | 7440-39-3  | 10    | mg/kg    |           | ----              | ----              | 30                | ----              | ----              |
| Beryllium                                            | 7440-41-7  | 1     | mg/kg    |           | ----              | ----              | <1                | ----              | ----              |
| Boron                                                | 7440-42-8  | 50    | mg/kg    |           | ----              | ----              | <50               | ----              | ----              |
| Cadmium                                              | 7440-43-9  | 1     | mg/kg    |           | <1                | <1                | <1                | <1                | <1                |
| Chromium                                             | 7440-47-3  | 2     | mg/kg    |           | 16                | 31                | 10                | 11                | 18                |
| Cobalt                                               | 7440-48-4  | 2     | mg/kg    |           | ----              | ----              | 3                 | ----              | ----              |
| Copper                                               | 7440-50-8  | 5     | mg/kg    |           | 9                 | 16                | 9                 | 12                | 8                 |
| Iron                                                 | 7439-89-6  | 0.005 | %        |           | ----              | 3.91              | ----              | ----              | ----              |
| Lead                                                 | 7439-92-1  | 5     | mg/kg    |           | 40                | 12                | 32                | 52                | 7                 |
| Manganese                                            | 7439-96-5  | 5     | mg/kg    |           | ----              | ----              | 91                | ----              | ----              |
| Nickel                                               | 7440-02-0  | 2     | mg/kg    |           | 14                | 45                | 6                 | 7                 | 22                |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                  |            |      |       | Sample ID | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5        |
|---------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                            | CAS Number | LOR  | Unit  |           | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |
|                                                                     |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EG005(ED093)T: Total Metals by ICP-AES - Continued</b>           |            |      |       |           |                   |                   |                   |                   |                   |
| Selenium                                                            | 7782-49-2  | 5    | mg/kg |           | ----              | ----              | <5                | ----              | ----              |
| Vanadium                                                            | 7440-62-2  | 5    | mg/kg |           | ----              | ----              | 24                | ----              | ----              |
| Zinc                                                                | 7440-66-6  | 5    | mg/kg |           | 56                | 24                | 175               | 107               | 17                |
| <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>EG048: Hexavalent Chromium (Alkaline Digest)</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Hexavalent Chromium                                                 | 18540-29-9 | 0.5  | mg/kg |           | ----              | ----              | <0.5              | ----              | ----              |
| <b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b> |            |      |       |           |                   |                   |                   |                   |                   |
| Weak Acid Dissociable Cyanide                                       | ----       | 1    | mg/kg |           | ----              | ----              | <1                | ----              | ----              |
| <b>EP004: Organic Matter</b>                                        |            |      |       |           |                   |                   |                   |                   |                   |
| Organic Matter                                                      | ----       | 0.5  | %     |           | ----              | 0.9               | ----              | ----              | ----              |
| Total Organic Carbon                                                | ----       | 0.5  | %     |           | ----              | 0.5               | ----              | ----              | ----              |
| <b>EP066: Polychlorinated Biphenyls (PCB)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| Total Polychlorinated biphenyls                                     | ----       | 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             | ----              |
| Hexachlorobenzene (HCB)                                             | 118-74-1   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| beta-BHC                                                            | 319-85-7   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| gamma-BHC                                                           | 58-89-9    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| delta-BHC                                                           | 319-86-8   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Heptachlor                                                          | 76-44-8    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Aldrin                                                              | 309-00-2   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Heptachlor epoxide                                                  | 1024-57-3  | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| ^ Total Chlordane (sum)                                             | ----       | 0.05 | mg/kg |           | ----              | ----              | ----              | <0.05             | ----              |
| trans-Chlordane                                                     | 5103-74-2  | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| alpha-Endosulfan                                                    | 959-98-8   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| cis-Chlordane                                                       | 5103-71-9  | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Dieldrin                                                            | 60-57-1    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | 0.56              | ----              |
| 4,4'-DDE                                                            | 72-55-9    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Endrin                                                              | 72-20-8    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| beta-Endosulfan                                                     | 33213-65-9 | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| ^ Endosulfan (sum)                                                  | 115-29-7   | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| 4,4'-DDD                                                            | 72-54-8    | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |
| Endrin aldehyde                                                     | 7421-93-4  | 0.05 | mg/kg |           | ----              | ----              | <0.05             | <0.05             | ----              |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                          |      |       | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5        |
|-----------------------------------------------------------|--------------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                      |                          |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                  | CAS Number               | LOR  | Unit  | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |
|                                                           |                          |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                          |      |       |                   |                   |                   |                   |                   |
| Endosulfan sulfate                                        | 1031-07-8                | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| 4,4'-DDT                                                  | 50-29-3                  | 0.2  | mg/kg | ----              | ----              | <0.2              | <0.2              | ----              |
| Endrin ketone                                             | 53494-70-5               | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Methoxychlor                                              | 72-43-5                  | 0.2  | mg/kg | ----              | ----              | <0.2              | <0.2              | ----              |
| Mirex                                                     | 2385-85-5                | 0.05 | mg/kg | ----              | ----              | <0.05             | ----              | ----              |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1         | 0.05 | mg/kg | ----              | ----              | <0.05             | <b>0.56</b>       | ----              |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/5<br>0-2 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                          |      |       |                   |                   |                   |                   |                   |
| Dichlorvos                                                | 62-73-7                  | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Demeton-S-methyl                                          | 919-86-8                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Monocrotophos                                             | 6923-22-4                | 0.2  | mg/kg | ----              | ----              | <0.2              | <0.2              | ----              |
| Dimethoate                                                | 60-51-5                  | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Diazinon                                                  | 333-41-5                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Chlorpyrifos-methyl                                       | 5598-13-0                | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Parathion-methyl                                          | 298-00-0                 | 0.2  | mg/kg | ----              | ----              | <0.2              | <0.2              | ----              |
| Malathion                                                 | 121-75-5                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Fenthion                                                  | 55-38-9                  | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Chlorpyrifos                                              | 2921-88-2                | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Parathion                                                 | 56-38-2                  | 0.2  | mg/kg | ----              | ----              | <0.2              | <0.2              | ----              |
| Pirimphos-ethyl                                           | 23505-41-1               | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Chlorfenvinphos                                           | 470-90-6                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Bromophos-ethyl                                           | 4824-78-6                | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Fenamiphos                                                | 22224-92-6               | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Prothiofos                                                | 34643-46-4               | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Ethion                                                    | 563-12-2                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Carbophenothion                                           | 786-19-6                 | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| Azinphos Methyl                                           | 86-50-0                  | 0.05 | mg/kg | ----              | ----              | <0.05             | <0.05             | ----              |
| <b>EP068C: Triazines</b>                                  |                          |      |       |                   |                   |                   |                   |                   |
| Atrazine                                                  | 1912-24-9                | 0.05 | mg/kg | ----              | ----              | <0.05             | ----              | ----              |
| <b>EP068D: Pyrethroids</b>                                |                          |      |       |                   |                   |                   |                   |                   |
| Bifenthrin                                                | 82657-04-3               | 0.05 | mg/kg | ----              | ----              | <0.05             | ----              | ----              |
| <b>EP069: Toxaphene</b>                                   |                          |      |       |                   |                   |                   |                   |                   |
| Toxaphene                                                 | 8001-35-2                | 2    | mg/kg | ----              | ----              | <2                | ----              | ----              |

| Sub-Matrix: SOIL<br>(Matrix: SOIL)             |            |          |       | Sample ID         | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5 |
|------------------------------------------------|------------|----------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| Sampling date / time                           |            |          |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |            |
| Compound                                       | CAS Number | LOR      | Unit  | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |            |
|                                                |            |          |       | Result            | Result            | Result            | Result            | Result            |            |
| EP075(SIM)A: Phenolic Compounds                |            |          |       |                   |                   |                   |                   |                   |            |
| Phenol                                         | 108-95-2   | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2-Chlorophenol                                 | 95-57-8    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2-Methylphenol                                 | 95-48-7    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 3- & 4-Methylphenol                            | 1319-77-3  | 1        | mg/kg | ----              | <1                | <2                | ----              | ----              |            |
| 2-Nitrophenol                                  | 88-75-5    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2,4-Dimethylphenol                             | 105-67-9   | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2,4-Dichlorophenol                             | 120-83-2   | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2,6-Dichlorophenol                             | 87-65-0    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 4-Chloro-3-methylphenol                        | 59-50-7    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2,4,6-Trichlorophenol                          | 88-06-2    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| 2,4,5-Trichlorophenol                          | 95-95-4    | 0.5      | mg/kg | ----              | <0.5              | <1.2              | ----              | ----              |            |
| Pentachlorophenol                              | 87-86-5    | 2        | mg/kg | ----              | <2                | <2                | ----              | ----              |            |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons |            |          |       |                   |                   |                   |                   |                   |            |
| Naphthalene                                    | 91-20-3    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Acenaphthylene                                 | 208-96-8   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Acenaphthene                                   | 83-32-9    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Fluorene                                       | 86-73-7    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Phenanthrene                                   | 85-01-8    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Anthracene                                     | 120-12-7   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Fluoranthene                                   | 206-44-0   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Pyrene                                         | 129-00-0   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Benz(a)anthracene                              | 56-55-3    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Chrysene                                       | 218-01-9   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Benzo(b+j)fluoranthene                         | 205-99-2   | 205-82-3 | 0.5   | mg/kg             | <0.5              | <1.2              | <0.5              | ----              |            |
| Benzo(k)fluoranthene                           | 207-08-9   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Benzo(a)pyrene                                 | 50-32-8    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Indeno(1.2.3.cd)pyrene                         | 193-39-5   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Dibenz(a.h)anthracene                          | 53-70-3    | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| Benzo(g.h.i)perylene                           | 191-24-2   | 0.5      | mg/kg | <0.5              | <0.5              | <1.2              | <0.5              | ----              |            |
| ^ Sum of polycyclic aromatic hydrocarbons      | ----       | 0.5      | mg/kg | <0.5              | <0.5              | <0.7              | <0.5              | ----              |            |
| ^ Benzo(a)pyrene TEQ (zero)                    | ----       | 0.5      | mg/kg | <0.5              | <0.5              | <0.5              | <0.5              | ----              |            |
| ^ Benzo(a)pyrene TEQ (half LOR)                | ----       | 0.5      | mg/kg | 0.6               | 0.6               | 1.4               | 0.6               | ----              |            |
| ^ Benzo(a)pyrene TEQ (LOR)                     | ----       | 0.5      | mg/kg | 1.2               | 1.2               | 2.9               | 1.2               | ----              |            |
| EP080/071: Total Petroleum Hydrocarbons        |            |          |       |                   |                   |                   |                   |                   |            |





## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                     |                   |      |       | Sample ID | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5        |
|------------------------------------------------------------------------|-------------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |                   |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                               | CAS Number        | LOR  | Unit  |           | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |
|                                                                        |                   |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP080/071: Total Petroleum Hydrocarbons - Continued</b>             |                   |      |       |           |                   |                   |                   |                   |                   |
| C6 - C9 Fraction                                                       | ----              | 10   | mg/kg |           | <10               | <10               | <10               | <10               | <10               |
| C10 - C14 Fraction                                                     | ----              | 50   | mg/kg |           | <50               | <50               | 130               | <50               | <50               |
| C15 - C28 Fraction                                                     | ----              | 100  | mg/kg |           | <100              | <100              | 2000              | 2050              | <100              |
| C29 - C36 Fraction                                                     | ----              | 100  | mg/kg |           | <100              | <100              | 1160              | 1570              | <100              |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50   | mg/kg |           | <50               | <50               | 3290              | 3620              | <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               | 420               | 130               | <50               |
| >C16 - C34 Fraction                                                    | ----              | 100  | mg/kg |           | <100              | <100              | 2800              | 3320              | <100              |
| >C34 - C40 Fraction                                                    | ----              | 100  | mg/kg |           | <100              | <100              | 320               | 830               | <100              |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50   | mg/kg |           | <50               | <50               | 3540              | 4280              | <50               |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50   | mg/kg |           | <50               | <50               | 420               | 130               | <50               |
| <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             | ----              | ----              |





## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                               |            |      |       | Sample ID | BH08 - 0.1        | BH09 - 0.5        | BH09 - 0.1        | BH10 - 0.1        | BH10 - 0.5        |
|------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                             |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                         | CAS Number | LOR  | Unit  |           | EM2211061-030     | EM2211061-031     | EM2211061-033     | EM2211061-036     | EM2211061-037     |
|                                                                  |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP202A: Phenoxyacetic Acid Herbicides by LCMS - Continued</b> |            |      |       |           |                   |                   |                   |                   |                   |
| 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>EP066S: PCB Surrogate</b>                                     |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | ----              | ----              | 110               | ----              | ----              |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                |            |      |       |           |                   |                   |                   |                   |                   |
| Dibromo-DDE                                                      | 21655-73-2 | 0.05 | %     |           | ----              | ----              | 126               | 88.1              | ----              |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>              |            |      |       |           |                   |                   |                   |                   |                   |
| DEF                                                              | 78-48-8    | 0.05 | %     |           | ----              | ----              | 55.6              | 58.8              | ----              |
| <b>EP069: Surrogate</b>                                          |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                                               | 2051-24-3  | 0.1  | %     |           | ----              | ----              | 120               | ----              | ----              |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Phenol-d6                                                        | 13127-88-3 | 0.5  | %     |           | 84.3              | 91.7              | 82.2              | 88.1              | ----              |
| 2-Chlorophenol-D4                                                | 93951-73-6 | 0.5  | %     |           | 87.7              | 87.0              | 79.6              | 84.3              | ----              |
| 2,4,6-Tribromophenol                                             | 118-79-6   | 0.5  | %     |           | 73.5              | 73.9              | 76.4              | 87.2              | ----              |
| <b>EP075(SIM)T: PAH Surrogates</b>                               |            |      |       |           |                   |                   |                   |                   |                   |
| 2-Fluorobiphenyl                                                 | 321-60-8   | 0.5  | %     |           | 97.6              | 93.8              | 88.9              | 92.9              | ----              |
| Anthracene-d10                                                   | 1719-06-8  | 0.5  | %     |           | 94.8              | 97.1              | 115               | 102               | ----              |
| 4-Terphenyl-d14                                                  | 1718-51-0  | 0.5  | %     |           | 95.1              | 95.5              | 86.1              | 98.9              | ----              |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                            |            |      |       |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                                            | 17060-07-0 | 0.2  | %     |           | 79.9              | ----              | 87.2              | 88.4              | 74.6              |
| Toluene-D8                                                       | 2037-26-5  | 0.2  | %     |           | 88.4              | ----              | 85.4              | 91.2              | 66.6              |
| 4-Bromofluorobenzene                                             | 460-00-4   | 0.2  | %     |           | 90.6              | ----              | 93.5              | 91.8              | 82.3              |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>            |            |      |       |           |                   |                   |                   |                   |                   |
| 2,4-Dichlorophenyl Acetic Acid                                   | 19719-28-9 | 0.02 | %     |           | ----              | ----              | 84.2              | ----              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                  |            |      |       | Sample ID | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|---------------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                            | CAS Number | LOR  | Unit  |           | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                                                     |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EA055: Moisture Content</b>                                      |            |      |       |           |                   |                   |                   |                   |                   |
| Moisture Content                                                    | ----       | 1.0  | %     |           | ----              | 21.9              | 1.8               | 16.9              | ----              |
| <b>EA055: Moisture Content (Dried @ 105-110°C)</b>                  |            |      |       |           |                   |                   |                   |                   |                   |
| Moisture Content                                                    | ----       | 1.0  | %     |           | 4.8               | ----              | ----              | ----              | 6.5               |
| <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 |           | 70                | ----              | ----              | ----              | 80                |
| Beryllium                                                           | 7440-41-7  | 1    | mg/kg |           | <1                | ----              | ----              | ----              | <1                |
| Boron                                                               | 7440-42-8  | 50   | mg/kg |           | <50               | ----              | ----              | ----              | <50               |
| Cadmium                                                             | 7440-43-9  | 1    | mg/kg |           | <1                | <1                | <1                | <1                | <1                |
| Chromium                                                            | 7440-47-3  | 2    | mg/kg |           | 12                | 20                | 14                | 25                | 23                |
| Cobalt                                                              | 7440-48-4  | 2    | mg/kg |           | 4                 | ----              | ----              | ----              | 18                |
| Copper                                                              | 7440-50-8  | 5    | mg/kg |           | 11                | 7                 | 15                | 10                | 16                |
| Lead                                                                | 7439-92-1  | 5    | mg/kg |           | 141               | 6                 | 16                | 10                | 20                |
| Manganese                                                           | 7439-96-5  | 5    | mg/kg |           | 109               | ----              | ----              | ----              | 340               |
| Nickel                                                              | 7440-02-0  | 2    | mg/kg |           | 8                 | 15                | 66                | 23                | 69                |
| Selenium                                                            | 7782-49-2  | 5    | mg/kg |           | <5                | ----              | ----              | ----              | <5                |
| Vanadium                                                            | 7440-62-2  | 5    | mg/kg |           | 21                | ----              | ----              | ----              | 33                |
| Zinc                                                                | 7440-66-6  | 5    | mg/kg |           | 321               | 22                | 80                | 24                | 81                |
| <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>EG048: Hexavalent Chromium (Alkaline Digest)</b>                 |            |      |       |           |                   |                   |                   |                   |                   |
| Hexavalent Chromium                                                 | 18540-29-9 | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| <b>EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser</b> |            |      |       |           |                   |                   |                   |                   |                   |
| Weak Acid Dissociable Cyanide                                       | ----       | 1    | mg/kg |           | <1                | ----              | ----              | ----              | ----              |
| <b>EP066: Polychlorinated Biphenyls (PCB)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| Total Polychlorinated biphenyls                                     | ----       | 0.1  | mg/kg |           | <0.1              | ----              | ----              | ----              | ----              |
| <b>EP068A: Organochlorine Pesticides (OC)</b>                       |            |      |       |           |                   |                   |                   |                   |                   |
| alpha-BHC                                                           | 319-84-6   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Hexachlorobenzene (HCB)                                             | 118-74-1   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| beta-BHC                                                            | 319-85-7   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| gamma-BHC                                                           | 58-89-9    | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| delta-BHC                                                           | 319-86-8   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Heptachlor                                                          | 76-44-8    | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Aldrin                                                              | 309-00-2   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |



## Analytical Results

Sub-Matrix: SOIL  
 (Matrix: SOIL)

Sample ID

|                                                           |                      |      |       | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|-----------------------------------------------------------|----------------------|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                      |                      |      |       | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                  | CAS Number           | LOR  | Unit  | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                                           |                      |      |       | Result            | Result            | Result            | Result            | Result            |
| <b>EP068A: Organochlorine Pesticides (OC) - Continued</b> |                      |      |       |                   |                   |                   |                   |                   |
| Heptachlor epoxide                                        | 1024-57-3            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| trans-Chlordane                                           | 5103-74-2            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| alpha-Endosulfan                                          | 959-98-8             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| cis-Chlordane                                             | 5103-71-9            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Dieldrin                                                  | 60-57-1              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDE                                                  | 72-55-9              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endrin                                                    | 72-20-8              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| beta-Endosulfan                                           | 33213-65-9           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Endosulfan (sum)                                        | 115-29-7             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDD                                                  | 72-54-8              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endrin aldehyde                                           | 7421-93-4            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Endosulfan sulfate                                        | 1031-07-8            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| 4,4'-DDT                                                  | 50-29-3              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Endrin ketone                                             | 53494-70-5           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Methoxychlor                                              | 72-43-5              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Mirex                                                     | 2385-85-5            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Sum of Aldrin + Dieldrin                                | 309-00-2/60-57-1     | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| ^ Sum of DDD + DDE + DDT                                  | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068B: Organophosphorus Pesticides (OP)</b>           |                      |      |       |                   |                   |                   |                   |                   |
| Dichlorvos                                                | 62-73-7              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Demeton-S-methyl                                          | 919-86-8             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Monocrotophos                                             | 6923-22-4            | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Dimethoate                                                | 60-51-5              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Diazinon                                                  | 333-41-5             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorpyrifos-methyl                                       | 5598-13-0            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Parathion-methyl                                          | 298-00-0             | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Malathion                                                 | 121-75-5             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Fenthion                                                  | 55-38-9              | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorpyrifos                                              | 2921-88-2            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Parathion                                                 | 56-38-2              | 0.2  | mg/kg | <0.2              | ----              | ----              | ----              | ----              |
| Pirimphos-ethyl                                           | 23505-41-1           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Chlorfenvinphos                                           | 470-90-6             | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Bromophos-ethyl                                           | 4824-78-6            | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |
| Fenamiphos                                                | 22224-92-6           | 0.05 | mg/kg | <0.05             | ----              | ----              | ----              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                          |            |      |       | Sample ID | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|-------------------------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                        |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                    | CAS Number | LOR  | Unit  |           | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                                             |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP068B: Organophosphorus Pesticides (OP) - Continued</b> |            |      |       |           |                   |                   |                   |                   |                   |
| Prothiofos                                                  | 34643-46-4 | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Ethion                                                      | 563-12-2   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Carbophenothion                                             | 786-19-6   | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| Azinphos Methyl                                             | 86-50-0    | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068C: Triazines</b>                                    |            |      |       |           |                   |                   |                   |                   |                   |
| Atrazine                                                    | 1912-24-9  | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP068D: Pyrethroids</b>                                  |            |      |       |           |                   |                   |                   |                   |                   |
| Bifenthrin                                                  | 82657-04-3 | 0.05 | mg/kg |           | <0.05             | ----              | ----              | ----              | ----              |
| <b>EP069: Toxaphene</b>                                     |            |      |       |           |                   |                   |                   |                   |                   |
| Toxaphene                                                   | 8001-35-2  | 2    | mg/kg |           | <2                | ----              | ----              | ----              | ----              |
| <b>EP075(SIM)A: Phenolic Compounds</b>                      |            |      |       |           |                   |                   |                   |                   |                   |
| Phenol                                                      | 108-95-2   | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2-Chlorophenol                                              | 95-57-8    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2-Methylphenol                                              | 95-48-7    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 3- & 4-Methylphenol                                         | 1319-77-3  | 1    | mg/kg |           | <1                | ----              | <1                | ----              | ----              |
| 2-Nitrophenol                                               | 88-75-5    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2,4-Dimethylphenol                                          | 105-67-9   | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2,4-Dichlorophenol                                          | 120-83-2   | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2,6-Dichlorophenol                                          | 87-65-0    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 4-Chloro-3-methylphenol                                     | 59-50-7    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2,4,6-Trichlorophenol                                       | 88-06-2    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| 2,4,5-Trichlorophenol                                       | 95-95-4    | 0.5  | mg/kg |           | <0.5              | ----              | <0.5              | ----              | ----              |
| Pentachlorophenol                                           | 87-86-5    | 2    | mg/kg |           | <2                | ----              | <2                | ----              | ----              |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons</b>       |            |      |       |           |                   |                   |                   |                   |                   |
| Naphthalene                                                 | 91-20-3    | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Acenaphthylene                                              | 208-96-8   | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Acenaphthene                                                | 83-32-9    | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Fluorene                                                    | 86-73-7    | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Phenanthrene                                                | 85-01-8    | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Anthracene                                                  | 120-12-7   | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Fluoranthene                                                | 206-44-0   | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Pyrene                                                      | 129-00-0   | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Benz(a)anthracene                                           | 56-55-3    | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Chrysene                                                    | 218-01-9   | 0.5  | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                                     |                   |     |       | Sample ID | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|------------------------------------------------------------------------|-------------------|-----|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                                   |                   |     |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                                               | CAS Number        | LOR | Unit  |           | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                                                        |                   |     |       |           | Result            | Result            | Result            | Result            | Result            |
| <b>EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued</b>      |                   |     |       |           |                   |                   |                   |                   |                   |
| Benzo(b+j)fluoranthene                                                 | 205-99-2 205-82-3 | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(k)fluoranthene                                                   | 207-08-9          | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(a)pyrene                                                         | 50-32-8           | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Indeno(1.2.3.cd)pyrene                                                 | 193-39-5          | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Dibenz(a.h)anthracene                                                  | 53-70-3           | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| Benzo(g.h.i)perylene                                                   | 191-24-2          | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| ^ Sum of polycyclic aromatic hydrocarbons                              | ----              | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (zero)                                            | ----              | 0.5 | mg/kg |           | <0.5              | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (half LOR)                                        | ----              | 0.5 | mg/kg |           | 0.6               | ----              | ----              | ----              | ----              |
| ^ Benzo(a)pyrene TEQ (LOR)                                             | ----              | 0.5 | mg/kg |           | 1.2               | ----              | ----              | ----              | ----              |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |                   |     |       |           |                   |                   |                   |                   |                   |
| C6 - C9 Fraction                                                       | ----              | 10  | mg/kg |           | <10               | <10               | <10               | <10               | ----              |
| C10 - C14 Fraction                                                     | ----              | 50  | mg/kg |           | <50               | <50               | <50               | <50               | ----              |
| C15 - C28 Fraction                                                     | ----              | 100 | mg/kg |           | <100              | <100              | <100              | <100              | ----              |
| C29 - C36 Fraction                                                     | ----              | 100 | mg/kg |           | 110               | <100              | <100              | <100              | ----              |
| ^ C10 - C36 Fraction (sum)                                             | ----              | 50  | mg/kg |           | 110               | <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               | ----              |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX       | 10  | mg/kg |           | <10               | <10               | <10               | <10               | ----              |
| >C10 - C16 Fraction                                                    | ----              | 50  | mg/kg |           | <50               | <50               | <50               | <50               | ----              |
| >C16 - C34 Fraction                                                    | ----              | 100 | mg/kg |           | 170               | <100              | <100              | <100              | ----              |
| >C34 - C40 Fraction                                                    | ----              | 100 | mg/kg |           | <100              | <100              | <100              | <100              | ----              |
| ^ >C10 - C40 Fraction (sum)                                            | ----              | 50  | mg/kg |           | 170               | <50               | <50               | <50               | ----              |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----              | 50  | mg/kg |           | <50               | <50               | <50               | <50               | ----              |
| <b>EP080: BTEXN</b>                                                    |                   |     |       |           |                   |                   |                   |                   |                   |
| Benzene                                                                | 71-43-2           | 0.2 | mg/kg |           | <0.2              | <0.2              | <0.2              | <0.2              | ----              |
| Toluene                                                                | 108-88-3          | 0.5 | mg/kg |           | <0.5              | <0.5              | <0.5              | <0.5              | ----              |
| Ethylbenzene                                                           | 100-41-4          | 0.5 | mg/kg |           | <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              | ----              |
| ortho-Xylene                                                           | 95-47-6           | 0.5 | mg/kg |           | <0.5              | <0.5              | <0.5              | <0.5              | ----              |
| ^ Sum of BTEX                                                          | ----              | 0.2 | mg/kg |           | <0.2              | <0.2              | <0.2              | <0.2              | ----              |
| ^ Total Xylenes                                                        | ----              | 0.5 | mg/kg |           | <0.5              | <0.5              | <0.5              | <0.5              | ----              |
| Naphthalene                                                            | 91-20-3           | 1   | mg/kg |           | <1                | <1                | <1                | <1                | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)            |            |      |       | Sample ID | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|-----------------------------------------------|------------|------|-------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                          |            |      |       |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                      | CAS Number | LOR  | Unit  |           | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                               |            |      |       |           | Result            | Result            | Result            | Result            | Result            |
| EP080: BTEXN - Continued                      |            |      |       |           |                   |                   |                   |                   |                   |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS |            |      |       |           |                   |                   |                   |                   |                   |
| 4-Chlorophenoxy acetic acid                   | 122-88-3   | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| 2,4-DB                                        | 94-82-6    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Dicamba                                       | 1918-00-9  | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Mecoprop                                      | 93-65-2    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| MCPA                                          | 94-74-6    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| 2,4-DP                                        | 120-36-5   | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| 2,4-D                                         | 94-75-7    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Triclopyr                                     | 55335-06-3 | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| 2,4,5-TP (Silvex)                             | 93-72-1    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| 2,4,5-T                                       | 93-76-5    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| MCPB                                          | 94-81-5    | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Picloram                                      | 1918-02-1  | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Clopyralid                                    | 1702-17-6  | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| Fluroxypyr                                    | 69377-81-7 | 0.02 | mg/kg |           | <0.04             | ----              | ----              | ----              | ----              |
| EP066S: PCB Surrogate                         |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                            | 2051-24-3  | 0.1  | %     |           | 117               | ----              | ----              | ----              | ----              |
| EP068S: Organochlorine Pesticide Surrogate    |            |      |       |           |                   |                   |                   |                   |                   |
| Dibromo-DDE                                   | 21655-73-2 | 0.05 | %     |           | 99.6              | ----              | ----              | ----              | ----              |
| EP068T: Organophosphorus Pesticide Surrogate  |            |      |       |           |                   |                   |                   |                   |                   |
| DEF                                           | 78-48-8    | 0.05 | %     |           | 70.0              | ----              | ----              | ----              | ----              |
| EP069: Surrogate                              |            |      |       |           |                   |                   |                   |                   |                   |
| Decachlorobiphenyl                            | 2051-24-3  | 0.1  | %     |           | 92.3              | ----              | ----              | ----              | ----              |
| EP075(SIM)S: Phenolic Compound Surrogates     |            |      |       |           |                   |                   |                   |                   |                   |
| Phenol-d6                                     | 13127-88-3 | 0.5  | %     |           | 86.8              | ----              | 97.8              | ----              | ----              |
| 2-Chlorophenol-D4                             | 93951-73-6 | 0.5  | %     |           | 82.5              | ----              | 93.8              | ----              | ----              |
| 2,4,6-Tribromophenol                          | 118-79-6   | 0.5  | %     |           | 72.0              | ----              | 84.0              | ----              | ----              |
| EP075(SIM)T: PAH Surrogates                   |            |      |       |           |                   |                   |                   |                   |                   |
| 2-Fluorobiphenyl                              | 321-60-8   | 0.5  | %     |           | 89.0              | ----              | 102               | ----              | ----              |
| Anthracene-d10                                | 1719-06-8  | 0.5  | %     |           | 102               | ----              | 102               | ----              | ----              |
| 4-Terphenyl-d14                               | 1718-51-0  | 0.5  | %     |           | 88.7              | ----              | 102               | ----              | ----              |
| EP080S: TPH(V)/BTEX Surrogates                |            |      |       |           |                   |                   |                   |                   |                   |
| 1,2-Dichloroethane-D4                         | 17060-07-0 | 0.2  | %     |           | 86.3              | 81.5              | 91.7              | 77.6              | ----              |
| Toluene-D8                                    | 2037-26-5  | 0.2  | %     |           | 94.8              | 89.0              | 98.3              | 78.9              | ----              |



## Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)                    |            |      |      | Sample ID | BH11 - 0.1        | BH11 - 0.5        | BH12 - 0.1        | BH12 - 0.5        | FD01              |
|-------------------------------------------------------|------------|------|------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sampling date / time                                  |            |      |      |           | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 |
| Compound                                              | CAS Number | LOR  | Unit |           | EM2211061-039     | EM2211061-040     | EM2211061-042     | EM2211061-043     | EM2211061-045     |
|                                                       |            |      |      | Result    | Result            | Result            | Result            | Result            | Result            |
| <b>EP080S: TPH(V)/BTEX Surrogates - Continued</b>     |            |      |      |           |                   |                   |                   |                   |                   |
| 4-Bromofluorobenzene                                  | 460-00-4   | 0.2  | %    |           | 93.9              | 90.9              | 99.8              | 82.8              | ----              |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b> |            |      |      |           |                   |                   |                   |                   |                   |
| 2,4-Dichlorophenyl Acetic Acid                        | 19719-28-9 | 0.02 | %    |           | 63.8              | ----              | ----              | ----              | ----              |





## Analytical Results

Sub-Matrix: **WATER**  
 (Matrix: **WATER**)

Sample ID

|                                                                        |             |        |      | RINS01            | TRIP01            | ----  | ----  | ----  |
|------------------------------------------------------------------------|-------------|--------|------|-------------------|-------------------|-------|-------|-------|
| Sampling date / time                                                   |             |        |      | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | ----  | ----  | ----  |
| Compound                                                               | CAS Number  | LOR    | Unit | EM2211061-046     | EM2211061-047     | ----- | ----- | ----- |
|                                                                        |             |        |      | Result            | Result            | ----  | ----  | ----  |
| <b>EG020T: Total Metals by ICP-MS</b>                                  |             |        |      |                   |                   |       |       |       |
| Arsenic                                                                | 7440-38-2   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Boron                                                                  | 7440-42-8   | 0.05   | mg/L | <0.05             | ----              | ----  | ----  | ----  |
| Barium                                                                 | 7440-39-3   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Beryllium                                                              | 7440-41-7   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Cadmium                                                                | 7440-43-9   | 0.0001 | mg/L | <0.0001           | ----              | ----  | ----  | ----  |
| Cobalt                                                                 | 7440-48-4   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Chromium                                                               | 7440-47-3   | 0.001  | mg/L | <b>0.002</b>      | ----              | ----  | ----  | ----  |
| Copper                                                                 | 7440-50-8   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Manganese                                                              | 7439-96-5   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Nickel                                                                 | 7440-02-0   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Lead                                                                   | 7439-92-1   | 0.001  | mg/L | <0.001            | ----              | ----  | ----  | ----  |
| Selenium                                                               | 7782-49-2   | 0.01   | mg/L | <0.01             | ----              | ----  | ----  | ----  |
| Vanadium                                                               | 7440-62-2   | 0.01   | mg/L | <0.01             | ----              | ----  | ----  | ----  |
| Zinc                                                                   | 7440-66-6   | 0.005  | mg/L | <0.005            | ----              | ----  | ----  | ----  |
| <b>EG035T: Total Recoverable Mercury by FIMS</b>                       |             |        |      |                   |                   |       |       |       |
| Mercury                                                                | 7439-97-6   | 0.0001 | mg/L | <0.0001           | ----              | ----  | ----  | ----  |
| <b>EP080/071: Total Petroleum Hydrocarbons</b>                         |             |        |      |                   |                   |       |       |       |
| C6 - C9 Fraction                                                       | ----        | 20     | µg/L | ----              | <20               | ----  | ----  | ----  |
| C10 - C14 Fraction                                                     | ----        | 50     | µg/L | ----              | <50               | ----  | ----  | ----  |
| C15 - C28 Fraction                                                     | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| C29 - C36 Fraction                                                     | ----        | 50     | µg/L | ----              | <50               | ----  | ----  | ----  |
| ^ C10 - C36 Fraction (sum)                                             | ----        | 50     | µg/L | ----              | <50               | ----  | ----  | ----  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b> |             |        |      |                   |                   |       |       |       |
| C6 - C10 Fraction                                                      | C6_C10      | 20     | µg/L | ----              | <20               | ----  | ----  | ----  |
| ^ C6 - C10 Fraction minus BTEX (F1)                                    | C6_C10-BTEX | 20     | µg/L | ----              | <20               | ----  | ----  | ----  |
| >C10 - C16 Fraction                                                    | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| >C16 - C34 Fraction                                                    | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| >C34 - C40 Fraction                                                    | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| ^ >C10 - C40 Fraction (sum)                                            | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| ^ >C10 - C16 Fraction minus Naphthalene (F2)                           | ----        | 100    | µg/L | ----              | <100              | ----  | ----  | ----  |
| <b>EP080: BTEXN</b>                                                    |             |        |      |                   |                   |       |       |       |
| Benzene                                                                | 71-43-2     | 1      | µg/L | ----              | <1                | ----  | ----  | ----  |





## Analytical Results

Sub-Matrix: **WATER**  
 (Matrix: **WATER**)

Sample ID

|                                       |                   |     |      | RINS01            | TRIP01            | ----  | ----  | ----  |
|---------------------------------------|-------------------|-----|------|-------------------|-------------------|-------|-------|-------|
| Sampling date / time                  |                   |     |      | 09-Jun-2022 00:00 | 09-Jun-2022 00:00 | ----  | ----  | ----  |
| Compound                              | CAS Number        | LOR | Unit | EM2211061-046     | EM2211061-047     | ----- | ----- | ----- |
|                                       |                   |     |      | Result            | Result            | ----  | ----  | ----  |
| <b>EP080: BTEXN - Continued</b>       |                   |     |      |                   |                   |       |       |       |
| Toluene                               | 108-88-3          | 2   | µg/L | ----              | <2                | ----  | ----  | ----  |
| Ethylbenzene                          | 100-41-4          | 2   | µg/L | ----              | <2                | ----  | ----  | ----  |
| meta- & para-Xylene                   | 108-38-3 106-42-3 | 2   | µg/L | ----              | <2                | ----  | ----  | ----  |
| ortho-Xylene                          | 95-47-6           | 2   | µg/L | ----              | <2                | ----  | ----  | ----  |
| ^ Total Xylenes                       | ----              | 2   | µg/L | ----              | <2                | ----  | ----  | ----  |
| ^ Sum of BTEX                         | ----              | 1   | µg/L | ----              | <1                | ----  | ----  | ----  |
| Naphthalene                           | 91-20-3           | 5   | µg/L | ----              | <5                | ----  | ----  | ----  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b> |                   |     |      |                   |                   |       |       |       |
| 1,2-Dichloroethane-D4                 | 17060-07-0        | 2   | %    | ----              | 103               | ----  | ----  | ----  |
| Toluene-D8                            | 2037-26-5         | 2   | %    | ----              | 96.4              | ----  | ----  | ----  |
| 4-Bromofluorobenzene                  | 460-00-4          | 2   | %    | ----              | 99.6              | ----  | ----  | ----  |



## Surrogate Control Limits

| Sub-Matrix: SOIL                                                          |            | Recovery Limits (%) |      |
|---------------------------------------------------------------------------|------------|---------------------|------|
| Compound                                                                  | CAS Number | Low                 | High |
| <b>EP066S: PCB Surrogate</b>                                              |            |                     |      |
| Decachlorobiphenyl                                                        | 2051-24-3  | 41                  | 122  |
| <b>EP068S: Organochlorine Pesticide Surrogate</b>                         |            |                     |      |
| Dibromo-DDE                                                               | 21655-73-2 | 62                  | 128  |
| <b>EP068T: Organophosphorus Pesticide Surrogate</b>                       |            |                     |      |
| DEF                                                                       | 78-48-8    | 40                  | 139  |
| <b>EP069: Surrogate</b>                                                   |            |                     |      |
| Decachlorobiphenyl                                                        | 2051-24-3  | 70                  | 130  |
| <b>EP074S: VOC Surrogates (Ultra-Trace)</b>                               |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 59                  | 119  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 117  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 59                  | 123  |
| <b>EP075(SIM)S: Phenolic Compound Surrogates</b>                          |            |                     |      |
| Phenol-d6                                                                 | 13127-88-3 | 54                  | 125  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 65                  | 123  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 34                  | 122  |
| <b>EP075(SIM)T: PAH Surrogates</b>                                        |            |                     |      |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 61                  | 125  |
| Anthracene-d10                                                            | 1719-06-8  | 62                  | 130  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 67                  | 133  |
| <b>EP075S: Acid Extractable Surrogates (Waste Classification)</b>         |            |                     |      |
| Phenol-d6                                                                 | 13127-88-3 | 63                  | 134  |
| 2-Chlorophenol-D4                                                         | 93951-73-6 | 60                  | 125  |
| 2,4,6-Tribromophenol                                                      | 118-79-6   | 54                  | 129  |
| <b>EP075T: Base/Neutral Extractable Surrogates (Waste Classification)</b> |            |                     |      |
| Nitrobenzene-D5                                                           | 4165-60-0  | 63                  | 131  |
| 1,2-Dichlorobenzene-D4                                                    | 2199-69-1  | 61                  | 124  |
| 2-Fluorobiphenyl                                                          | 321-60-8   | 69                  | 131  |
| Anthracene-d10                                                            | 1719-06-8  | 70                  | 133  |
| 4-Terphenyl-d14                                                           | 1718-51-0  | 59                  | 141  |
| <b>EP080S: TPH(V)/BTEX Surrogates</b>                                     |            |                     |      |
| 1,2-Dichloroethane-D4                                                     | 17060-07-0 | 51                  | 125  |
| Toluene-D8                                                                | 2037-26-5  | 55                  | 125  |
| 4-Bromofluorobenzene                                                      | 460-00-4   | 56                  | 124  |
| <b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>                     |            |                     |      |
| 2,4-Dichlorophenyl Acetic Acid                                            | 19719-28-9 | 45                  | 139  |
| Sub-Matrix: WATER                                                         |            | Recovery Limits (%) |      |
| Compound                                                                  | CAS Number | Low                 | High |

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Work Order : EM2211061  
Client : EDGE GROUP PTY LTD  
Project : 20220134



| Sub-Matrix: <b>WATER</b>              |            | Recovery Limits (%) |      |
|---------------------------------------|------------|---------------------|------|
| Compound                              | CAS Number | Low                 | High |
| <b>EP080S: TPH(V)/BTEX Surrogates</b> |            |                     |      |
| <b>1,2-Dichloroethane-D4</b>          | 17060-07-0 | 73                  | 129  |
| <b>Toluene-D8</b>                     | 2037-26-5  | 70                  | 125  |
| <b>4-Bromofluorobenzene</b>           | 460-00-4   | 71                  | 129  |

### Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA150: Soil Classification based on Particle Size

(SOIL) EA152: Soil Particle Density

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(SOIL) EP202A: Phenoxyacetic Acid Herbicides by LCMS

(SOIL) EP202S: Phenoxyacetic Acid Herbicide Surrogate

## Automated Guideline Comparison Report

|                         |                                  |               |                                              |
|-------------------------|----------------------------------|---------------|----------------------------------------------|
| Work Order              | : <b>EM2211061</b>               | Page          | : 1 of 12                                    |
| Client                  | : <b>EDGE GROUP PTY LTD</b>      | Laboratory    | : Environmental Division Melbourne           |
| Contact                 | : NATASHA DUN                    |               |                                              |
| Address                 | : 423 City Rd<br>South Melbourne | Address       | : 4 Westall Rd Springvale VIC Australia 3171 |
| E-mail                  | : natasha.dun@edgegroup.net.au   | E-mail        | : Hannah.White@alsglobal.com                 |
| Telephone               | : ----                           | Telephone     | : +61-3-8549 9600                            |
| Facsimile               | : ----                           | Facsimile     | : +61-3-8549 9626                            |
| Project                 | : 20220134                       | Date Received | : 10-Jun-2022 13:25                          |
| Order number            | : ----                           | Date Analysed | : 14-Jun-2022                                |
| C-O-C number            | : ----                           | Date Issued   | : 24-Jun-2022 13:04                          |
| No. of samples received | : 49                             |               |                                              |
| No. of samples analysed | : 27                             | Quote number  | : MEBQ/108/21 Primary Work                   |

### General Comments

Only results in the 'Analytical Results' section have been compared to the guideline.

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



### ***Summary of Thresholds Reached or Exceeded***

Results for all samples detailed in this report are below the upper threshold limits for Fill Material.

***Results for all samples detailed in this report are below the upper threshold limits for Fill Material.***













**Fill material contamination total concentration Upper Limit**

**Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit**

Sub-Matrix: SOIL

| Sub-Matrix: SOIL                             |              |      |         | Sample ID          |                | SP01             |                  | SP03                 |                      | SP05                 |                      | SP07                 |  | SP09 |  |
|----------------------------------------------|--------------|------|---------|--------------------|----------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|------|--|
|                                              |              |      |         | Sampling date/time |                | Guideline        | Guideline        | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 |  |      |  |
| Compound                                     | Method       | LOR  | Unit    | Lower<br>Limit     | Upper<br>Limit | EM2211061-020 MU | EM2211061-022 MU | EM2211061-024 MU     | EM2211061-026 MU     | EM2211061-028 MU     |                      |                      |  |      |  |
| EA001: pH in soil using 0.01M CaCl extract   |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| pH (CaCl2)                                   | EA001        | 0.1  | pH Unit | 4                  | 9              | 7.5 ± 0.1        | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EG005(ED093)T: Total Metals by ICP-AES       |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Arsenic                                      | EG005T       | 5    | mg/kg   | ----               | 20             | 8 ± 2            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Cadmium                                      | EG005T       | 1    | mg/kg   | ----               | 3              | <1 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Copper                                       | EG005T       | 5    | mg/kg   | ----               | 100            | 14 ± 2           | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Lead                                         | EG005T       | 5    | mg/kg   | ----               | 300            | 13 ± 2           | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Molybdenum                                   | EG005T       | 2    | mg/kg   | ----               | 40             | <2 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Nickel                                       | EG005T       | 2    | mg/kg   | ----               | 60             | 33 ± 3           | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Selenium                                     | EG005T       | 5    | mg/kg   | ----               | 10             | <5 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Silver                                       | EG005T       | 2    | mg/kg   | ----               | 10             | <2 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Tin                                          | EG005T       | 5    | mg/kg   | ----               | 50             | <5 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Zinc                                         | EG005T       | 5    | mg/kg   | ----               | 200            | 36 ± 5           | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EG035T: Total Recoverable Mercury by FIMS    |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Mercury                                      | EG035T       | 0.1  | mg/kg   | ----               | 1              | <0.1 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EG048: Hexavalent Chromium (Alkaline Digest) |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Hexavalent Chromium                          | EG048G       | 0.5  | mg/kg   | ----               | 1              | <0.5 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EK026SF: Total CN by Segmented Flow Analyser |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Total Cyanide                                | EK026SF      | 1    | mg/kg   | ----               | 50             | <1 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EK040T: Fluoride Total                       |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Fluoride                                     | EK040T       | 40   | mg/kg   | ----               | 450            | 180 ± 40         | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP066: Polychlorinated Biphenyls (PCB)       |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Total Polychlorinated biphenyls              | EP066-EM     | 0.1  | mg/kg   | ----               | 2              | <0.1 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP074A: Monocyclic Aromatic Hydrocarbons     |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Benzene                                      | EP074-UT     | 0.2  | mg/kg   | ----               | 1              | <0.2 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Sum of monocyclic aromatic hydrocarbons      | EP074-UT-SUM | 0.2  | mg/kg   | ----               | 7              | <0.2 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP074I: Volatile Halogenated Compounds       |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Sum of volatile chlorinated hydrocarbons     | EP074-UT-SUM | 0.01 | mg/kg   | ----               | 1              | <0.01 --         | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP075A: Phenolic Compounds (Halogenated)     |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Sum of Phenols (halogenated)                 | EP075-EM-SUM | 0.03 | mg/kg   | ----               | 1              | <0.03 --         | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP075A: Phenolic Compounds (Non-halogenated) |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Sum of Phenols (non-halogenated)             | EP075-EM-SUM | 1    | mg/kg   | ----               | 60             | <1 --            | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| EP075B: Polynuclear Aromatic Hydrocarbons    |              |      |         |                    |                |                  |                  |                      |                      |                      |                      |                      |  |      |  |
| Benzo(a)pyrene                               | EP075-EM     | 0.5  | mg/kg   | ----               | 1              | <0.5 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |
| Sum of polycyclic aromatic hydrocarbons      | EP075-EM-SUM | 0.5  | mg/kg   | ----               | 20             | <0.5 --          | ----             | ----                 | ----                 | ----                 |                      |                      |  |      |  |



Fill material contamination total concentration Upper Limit

Table 3: Fill material contamination total concentration upper limit: Table 3: Fill material contamination total concentration upper limit

Sub-Matrix: SOIL

|                                         |              |      |       | Sample ID          | Guideline      | Guideline      | SP01                 | SP03                 | SP05                 | SP07                 | SP09                 |
|-----------------------------------------|--------------|------|-------|--------------------|----------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                         |              |      |       | Sampling date/time |                |                | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 | 09-Jun-2022<br>15:00 |
|                                         |              |      |       |                    |                |                | EM2211061-020 MU     | EM2211061-022 MU     | EM2211061-024 MU     | EM2211061-026 MU     | EM2211061-028 MU     |
| Compound                                | Method       | LOR  | Unit  |                    | Lower<br>Limit | Upper<br>Limit |                      |                      |                      |                      |                      |
| EP075I: Organochlorine Pesticides       |              |      |       |                    |                |                |                      |                      |                      |                      |                      |
| Sum of organochlorine pesticides        | EP075-EM-SUM | 0.03 | mg/kg |                    | ----           | 1              | <0.03 ..             | ----                 | ----                 | ----                 | ----                 |
| EP080/071: Total Petroleum Hydrocarbons |              |      |       |                    |                |                |                      |                      |                      |                      |                      |
| C6 - C9 Fraction                        | EP074-UT     | 10   | mg/kg |                    | ----           | 100            | <10 ..               | ----                 | ----                 | ----                 | ----                 |
| C10 - C36 Fraction (sum)                | EP071-EM     | 50   | mg/kg |                    | ----           | 1000           | <50 ..               | ----                 | ----                 | ----                 | ----                 |









## QUALITY CONTROL REPORT

**Work Order** : **EM2211061**

**Page** : 1 of 32

**Client** : **EDGE GROUP PTY LTD**  
**Contact** : **NATASHA DUN**  
**Address** : **423 City Rd**  
**South Melbourne**  
**Telephone** : **----**  
**Project** : **20220134**  
**Order number** : **----**  
**C-O-C number** : **----**  
**Sampler** : **GM and ED**  
**Site** : **Hopetoun Park**  
**Quote number** : **MEBQ/108/21 Primary Work**  
**No. of samples received** : **49**  
**No. of samples analysed** : **27**

**Laboratory** : **Environmental Division Melbourne**  
**Contact** : **Hannah White**  
**Address** : **4 Westall Rd Springvale VIC Australia 3171**  
**Telephone** : **+61-3-8549 9600**  
**Date Samples Received** : **10-Jun-2022**  
**Date Analysis Commenced** : **14-Jun-2022**  
**Issue Date** : **24-Jun-2022**



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

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

This Quality Control Report contains the following information:

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

### Signatories

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

| Signatories         | Position                            | Accreditation Category                     |
|---------------------|-------------------------------------|--------------------------------------------|
| Aleksandar Vujkovic | Laboratory Technician               | Newcastle - Inorganics, Mayfield West, NSW |
| Dilani Fernando     | Laboratory Coordinator              | Melbourne Inorganics, Springvale, VIC      |
| Franco Lentini      | LCMS Coordinator                    | Sydney Organics, Smithfield, NSW           |
| Jarwis Nheu         | Senior Inorganic Chemist            | Melbourne Inorganics, Springvale, VIC      |
| Nancy Wang          | 2IC Organic Chemist                 | Melbourne Inorganics, Springvale, VIC      |
| Nancy Wang          | 2IC Organic Chemist                 | Melbourne Organics, Springvale, VIC        |
| Nikki Stepniewski   | Senior Inorganic Instrument Chemist | Melbourne Inorganics, Springvale, VIC      |
| Xing Lin            | Senior Organic Chemist              | Melbourne Organics, Springvale, VIC        |





## 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: 4400651)</b> |           |                    |            |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                   | Anonymous | EG005T: Lead       | 7439-92-1  | 5                                 | mg/kg | 381             | # 1870           | 132     | 0% - 20%           |
|                                                                 |           | EG005T: Zinc       | 7440-66-6  | 5                                 | mg/kg | 196             | 195              | 0.0     | 0% - 20%           |
| EM2211035-013                                                   | Anonymous | EG005T: Zinc       | 7440-66-6  | 5                                 | mg/kg | 102             | # 71             | 35.1    | 0% - 20%           |
| EM2211035-001                                                   | 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 | 280             | 290              | 0.0     | 0% - 20%           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 13              | 12               | 10.2    | No Limit           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 6               | 5                | 27.8    | No Limit           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg | 18              | 16               | 15.5    | No Limit           |
|                                                                 |           | EG005T: Silver     | 7440-22-4  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Arsenic    | 7440-38-2  | 5                                 | mg/kg | 8               | <5               | 42.5    | No Limit           |
|                                                                 |           | EG005T: Copper     | 7440-50-8  | 5                                 | mg/kg | 44              | 48               | 8.7     | No Limit           |
|                                                                 |           | EG005T: Manganese  | 7439-96-5  | 5                                 | mg/kg | 70              | 73               | 3.7     | 0% - 50%           |
|                                                                 |           | EG005T: Selenium   | 7782-49-2  | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                 |           | EG005T: Tin        | 7440-31-5  | 5                                 | mg/kg | 8               | <5               | 46.4    | No Limit           |
|                                                                 |           | EG005T: Vanadium   | 7440-62-2  | 5                                 | mg/kg | 16              | 11               | 36.0    | No Limit           |
|                                                                 |           | EG005T: Boron      | 7440-42-8  | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EM2211035-013                                                   | Anonymous | EG005T: Beryllium  | 7440-41-7  | 1                                 | mg/kg | 2               | 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 | 140             | 90               | 40.6    | 0% - 50%           |
|                                                                 |           | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg | 33              | 31               | 7.1     | 0% - 50%           |
|                                                                 |           | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg | 11              | 9                | 23.7    | No Limit           |
|                                                                 |           | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg | <2              | <2               | 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 (%) |
| EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4400651) - continued |            |                    |            |                                   |           |                 |                  |         |                    |
| EM2211035-013                                                        | Anonymous  | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg     | 22              | 20               | 9.6     | 0% - 50%           |
|                                                                      |            | EG005T: Silver     | 7440-22-4  | 2                                 | mg/kg     | <2              | <2               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Arsenic    | 7440-38-2  | 5                                 | mg/kg     | 14              | 11               | 24.5    | No Limit           |
|                                                                      |            | EG005T: Copper     | 7440-50-8  | 5                                 | mg/kg     | 22              | 28               | 23.3    | No Limit           |
|                                                                      |            | EG005T: Lead       | 7439-92-1  | 5                                 | mg/kg     | 62              | 41               | 39.6    | 0% - 50%           |
|                                                                      |            | EG005T: Manganese  | 7439-96-5  | 5                                 | mg/kg     | 50              | 47               | 4.7     | No Limit           |
|                                                                      |            | EG005T: Selenium   | 7782-49-2  | 5                                 | mg/kg     | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Tin        | 7440-31-5  | 5                                 | mg/kg     | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Vanadium   | 7440-62-2  | 5                                 | mg/kg     | 42              | 34               | 21.8    | No Limit           |
| EG005T: Boron                                                        | 7440-42-8  | 50                 | mg/kg      | <50                               | <50       | 0.0             | No Limit         |         |                    |
| EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4400652)             |            |                    |            |                                   |           |                 |                  |         |                    |
| EM2211061-014                                                        | BH05 - 0.5 | EG005T: Chromium   | 7440-47-3  | 2                                 | mg/kg     | 42              | 41               | 0.0     | 0% - 20%           |
|                                                                      |            | EG005T: Cobalt     | 7440-48-4  | 2                                 | mg/kg     | 15              | 18               | 20.7    | No Limit           |
|                                                                      |            | EG005T: Nickel     | 7440-02-0  | 2                                 | mg/kg     | 29              | 28               | 0.0     | 0% - 50%           |
|                                                                      |            | EG005T: Manganese  | 7439-96-5  | 5                                 | mg/kg     | 89              | # 124            | 32.9    | 0% - 20%           |
|                                                                      |            | EG005T: Vanadium   | 7440-62-2  | 5                                 | mg/kg     | 64              | 64               | 0.0     | 0% - 50%           |
| EM2211061-014                                                        | BH05 - 0.5 | EG005T: Beryllium  | 7440-41-7  | 1                                 | mg/kg     | <1              | 2                | 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     | 40              | 60               | 56.7    | No Limit           |
|                                                                      |            | EG005T: Molybdenum | 7439-98-7  | 2                                 | mg/kg     | <2              | <2               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Silver     | 7440-22-4  | 2                                 | mg/kg     | <2              | <2               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Arsenic    | 7440-38-2  | 5                                 | mg/kg     | 6               | 11               | 58.7    | No Limit           |
|                                                                      |            | EG005T: Copper     | 7440-50-8  | 5                                 | mg/kg     | 8               | 16               | 62.3    | No Limit           |
|                                                                      |            | EG005T: Lead       | 7439-92-1  | 5                                 | mg/kg     | 8               | 16               | 71.0    | No Limit           |
|                                                                      |            | EG005T: Selenium   | 7782-49-2  | 5                                 | mg/kg     | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Tin        | 7440-31-5  | 5                                 | mg/kg     | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Zinc       | 7440-66-6  | 5                                 | mg/kg     | 9               | 17               | 61.3    | No Limit           |
|                                                                      |            | EG005T: Boron      | 7440-42-8  | 50                                | mg/kg     | <50             | <50              | 0.0     | No Limit           |
|                                                                      |            | EG005T: Iron       | 7439-89-6  | 50                                | mg/kg     | 21000           | 20700            | 1.2     | 0% - 20%           |
|                                                                      |            | EM2211061-031      | BH09 - 0.5 | EG005T: Beryllium                 | 7440-41-7 | 1               | mg/kg            | 1       | 1                  |
| EG005T: Cadmium                                                      | 7440-43-9  |                    |            | 1                                 | mg/kg     | <1              | <1               | 0.0     | No Limit           |
| EG005T: Barium                                                       | 7440-39-3  |                    |            | 10                                | mg/kg     | 600             | 620              | 3.6     | 0% - 20%           |
| EG005T: Chromium                                                     | 7440-47-3  |                    |            | 2                                 | mg/kg     | 31              | 29               | 7.7     | 0% - 50%           |
| EG005T: Cobalt                                                       | 7440-48-4  |                    |            | 2                                 | mg/kg     | 21              | 18               | 14.6    | 0% - 50%           |
| EG005T: Molybdenum                                                   | 7439-98-7  |                    |            | 2                                 | mg/kg     | <2              | <2               | 0.0     | No Limit           |
| EG005T: Nickel                                                       | 7440-02-0  |                    |            | 2                                 | mg/kg     | 45              | 44               | 2.5     | 0% - 20%           |
| EG005T: Silver                                                       | 7440-22-4  |                    |            | 2                                 | mg/kg     | <2              | <2               | 0.0     | No Limit           |
| EG005T: Arsenic                                                      | 7440-38-2  |                    |            | 5                                 | mg/kg     | 8               | 9                | 14.4    | No Limit           |
| EG005T: Copper                                                       | 7440-50-8  |                    |            | 5                                 | mg/kg     | 16              | 15               | 0.0     | No Limit           |
| EG005T: Lead                                                         | 7439-92-1  |                    |            | 5                                 | mg/kg     | 12              | 13               | 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 (%) |
| EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4400652) - continued |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211061-031                                                        | BH09 - 0.5 | EG005T: Manganese                     | 7439-96-5  | 5                                 | mg/kg    | 514             | 501              | 2.5     | 0% - 20%           |
|                                                                      |            | EG005T: Selenium                      | 7782-49-2  | 5                                 | mg/kg    | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Tin                           | 7440-31-5  | 5                                 | mg/kg    | <5              | <5               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Vanadium                      | 7440-62-2  | 5                                 | mg/kg    | 68              | 72               | 5.3     | 0% - 50%           |
|                                                                      |            | EG005T: Zinc                          | 7440-66-6  | 5                                 | mg/kg    | 24              | 23               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Boron                         | 7440-42-8  | 50                                | mg/kg    | 60              | 50               | 0.0     | No Limit           |
|                                                                      |            | EG005T: Iron                          | 7439-89-6  | 50                                | mg/kg    | 3.91 %          | 39600            | 1.1     | 0% - 20%           |
| EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4400656)         |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2210946-002                                                        | Anonymous  | EA001: pH (CaCl2)                     | ----       | 0.1                               | pH Unit  | 6.0             | 6.1              | 0.0     | 0% - 20%           |
| EM2211061-020                                                        | SP01       | EA001: pH (CaCl2)                     | ----       | 0.1                               | pH Unit  | 7.5             | 7.6              | 0.0     | 0% - 20%           |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4400803)        |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211061-001                                                        | BH01 - 0.1 | EA055: Moisture Content               | ----       | 0.1                               | %        | 6.8             | 7.5              | 9.5     | No Limit           |
| EM2211061-020                                                        | SP01       | EA055: Moisture Content               | ----       | 0.1                               | %        | 7.4             | 7.4              | 0.0     | No Limit           |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4400804)        |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211061-039                                                        | BH11 - 0.1 | EA055: Moisture Content               | ----       | 0.1                               | %        | 4.8             | 3.8              | 23.6    | No Limit           |
| EM2211149-002                                                        | Anonymous  | EA055: Moisture Content               | ----       | 0.1                               | %        | 10.5            | 9.7              | 8.2     | 0% - 50%           |
| ED006: Exchangeable Cations on Alkaline Soils (QC Lot: 4403505)      |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211061-019                                                        | BH07 - 0.1 | ED006: Calcium/Magnesium Ratio        | ----       | 0.1                               | -        | 1.1             | 1.0              | 0.0     | No Limit           |
|                                                                      |            | ED006: Magnesium/Potassium Ratio      | ----       | 0.1                               | -        | 4.4             | 4.4              | 0.0     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Calcium Percent   | ----       | 0.2                               | %        | 38.0            | 37.7             | 0.8     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Magnesium Percent | ----       | 0.2                               | %        | 35.7            | 35.7             | 0.0     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Potassium Percent | ----       | 0.2                               | %        | 8.1             | 8.2              | 0.0     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Sodium Percent    | ----       | 0.2                               | %        | 18.2            | 18.4             | 1.4     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Calcium           | ----       | 0.2                               | meq/100g | 4.7             | 4.8              | 2.4     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Magnesium         | ----       | 0.2                               | meq/100g | 4.4             | 4.6              | 3.2     | 0% - 20%           |
|                                                                      |            | ED006: Exchangeable Potassium         | ----       | 0.2                               | meq/100g | 1.0             | 1.0              | 0.0     | No Limit           |
|                                                                      |            | ED006: Exchangeable Sodium            | ----       | 0.2                               | meq/100g | 2.2             | 2.4              | 4.6     | 0% - 50%           |
|                                                                      |            | ED006: Cation Exchange Capacity       | ----       | 0.2                               | meq/100g | 12.4            | 12.8             | 3.2     | 0% - 20%           |
| EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4400650)          |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211035-001                                                        | Anonymous  | EG035T: Mercury                       | 7439-97-6  | 0.1                               | mg/kg    | 0.2             | 0.1              | 0.0     | No Limit           |
| EM2211035-013                                                        | Anonymous  | EG035T: Mercury                       | 7439-97-6  | 0.1                               | mg/kg    | 0.1             | <0.1             | 0.0     | No Limit           |
| EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4400653)          |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211061-014                                                        | BH05 - 0.5 | EG035T: Mercury                       | 7439-97-6  | 0.1                               | mg/kg    | <0.1            | <0.1             | 0.0     | No Limit           |
| EM2211061-031                                                        | BH09 - 0.5 | EG035T: Mercury                       | 7439-97-6  | 0.1                               | mg/kg    | <0.1            | <0.1             | 0.0     | No Limit           |
| EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4400826)       |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2210622-001                                                        | Anonymous  | EG048G: Hexavalent Chromium           | 18540-29-9 | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |
| EM2211061-001                                                        | BH01 - 0.1 | EG048G: Hexavalent Chromium           | 18540-29-9 | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |
| EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4403123)       |            |                                       |            |                                   |          |                 |                  |         |                    |
| EM2211058-006                                                        | Anonymous  | EK026SF: Total Cyanide                | 57-12-5    | 1                                 | mg/kg    | <1              | <1               | 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 (%) |
| EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4403123) - continued     |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2210714-001                                                                  | Anonymous  | EK026SF: Total Cyanide                    | 57-12-5    | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
| EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QC Lot: 4403126) |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                                  | BH01 - 0.1 | EK028SF: Weak Acid Dissociable Cyanide    | ----       | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
| EK040T: Fluoride Total (QC Lot: 4400820)                                       |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                                                  | Anonymous  | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg | 370             | 330              | 10.7    | No Limit           |
| EM2211131-030                                                                  | Anonymous  | EK040T: Fluoride                          | 16984-48-8 | 40                                | mg/kg | 130             | 120              | 10.4    | No Limit           |
| EP004: Organic Matter (QC Lot: 4405872)                                        |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2210740-005                                                                  | Anonymous  | EP004: Organic Matter                     | ----       | 0.5                               | %     | 26.7            | 26.0             | 2.4     | 0% - 20%           |
|                                                                                |            | EP004: Total Organic Carbon               | ----       | 0.5                               | %     | 15.5            | 15.1             | 2.4     | 0% - 20%           |
| EM2211170-029                                                                  | Anonymous  | EP004: Organic Matter                     | ----       | 0.5                               | %     | 3.3             | 3.4              | 0.0     | No Limit           |
|                                                                                |            | EP004: Total Organic Carbon               | ----       | 0.5                               | %     | 1.9             | 1.9              | 0.0     | No Limit           |
| EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4400518)                       |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                                  | Anonymous  | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg | <0.4            | <0.4             | 0.0     | No Limit           |
| EM2211156-059                                                                  | Anonymous  | EP066-EM: Total Polychlorinated biphenyls | ----       | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4400532)                       |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                                  | BH01 - 0.1 | EP066: Total Polychlorinated biphenyls    | ----       | 0.1                               | mg/kg | <0.1            | <0.1             | 0.0     | No Limit           |
| EP068A: Organochlorine Pesticides (OC) (QC Lot: 4400531)                       |            |                                           |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                                  | BH01 - 0.1 | EP068: alpha-BHC                          | 319-84-6   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                |            | EP068: Hexachlorobenzene (HCB)            | 118-74-1   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                |            | EP068: beta-BHC                           | 319-85-7   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                                |            | EP068: gamma-BHC                          | 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: Mirex                              | 2385-85-5  | 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           |



| 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: 4400531) |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                              | BH01 - 0.1 | EP068: Dichlorvos                | 62-73-7    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Demeton-S-methyl          | 919-86-8   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Dimethoate                | 60-51-5    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Diazinon                  | 333-41-5   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Chlorpyrifos-methyl       | 5598-13-0  | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Malathion                 | 121-75-5   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Fenthion                  | 55-38-9    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Chlorpyrifos              | 2921-88-2  | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Pirimphos-ethyl           | 23505-41-1 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Chlorfenvinphos           | 470-90-6   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Bromophos-ethyl           | 4824-78-6  | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Fenamiphos                | 22224-92-6 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Prothiofos                | 34643-46-4 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Ethion                    | 563-12-2   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Carbophenothion           | 786-19-6   | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Azinphos Methyl           | 86-50-0    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                            |            | EP068: Monocrotophos             | 6923-22-4  | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                            |            | EP068: Parathion-methyl          | 298-00-0   | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                            |            | EP068: Parathion                 | 56-38-2    | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EP068C: Triazines (QC Lot: 4400531)                        |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                              | BH01 - 0.1 | EP068: Atrazine                  | 1912-24-9  | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EP068D: Pyrethroids (QC Lot: 4400531)                      |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                              | BH01 - 0.1 | EP068: Bifenthrin                | 82657-04-3 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EP069: Toxaphene (QC Lot: 4400534)                         |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                              | BH01 - 0.1 | EP069: Toxaphene                 | 8001-35-2  | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
| EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4400434) |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                              | Anonymous  | EP074-UT: Benzene                | 71-43-2    | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                            |            | EP074-UT: Toluene                | 108-88-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                            |            | EP074-UT: Ethylbenzene           | 100-41-4   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                            |            | EP074-UT: meta- & para-Xylene    | 108-38-3   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                            |            |                                  | 106-42-3   |                                   |       |                 |                  |         |                    |
|                                                            |            | EP074-UT: Styrene                | 100-42-5   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                            |            | EP074-UT: ortho-Xylene           | 95-47-6    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
| EP074H: Naphthalene (QC Lot: 4400434)                      |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                              | Anonymous  | EP074-UT: Naphthalene            | 91-20-3    | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
| EP074I: Volatile Halogenated Compounds (QC Lot: 4400434)   |            |                                  |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                              | Anonymous  | EP074-UT: 1,1-Dichloroethene     | 75-35-4    | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                            |            | EP074-UT: cis-1,2-Dichloroethene | 156-59-2   | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                            |            | EP074-UT: 1,1,1-Trichloroethane  | 71-55-6    | 0.01                              | mg/kg | <0.01           | <0.01            | 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 (%) |
| EP074I: Volatile Halogenated Compounds (QC Lot: 4400434) - continued |            |                                     |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                                        | Anonymous  | EP074-UT: Carbon Tetrachloride      | 56-23-5    | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.1.1.2-Tetrachloroethane | 630-20-6   | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.2.4-Trichlorobenzene    | 120-82-1   | 0.01                              | mg/kg | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Vinyl chloride            | 75-01-4    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: trans-1.2-Dichloroethene  | 156-60-5   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Chloroform                | 67-66-3    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.2-Dichloroethane        | 107-06-2   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Trichloroethene           | 79-01-6    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Tetrachloroethene         | 127-18-4   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.1.2.2-Tetrachloroethane | 79-34-5    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Hexachlorobutadiene       | 87-68-3    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: Chlorobenzene             | 108-90-7   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.4-Dichlorobenzene       | 106-46-7   | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.2-Dichlorobenzene       | 95-50-1    | 0.02                              | mg/kg | <0.02           | <0.02            | 0.0     | No Limit           |
|                                                                      |            | EP074-UT: 1.1.2-Trichloroethane     | 79-00-5    | 0.04                              | mg/kg | <0.04           | <0.04            | 0.0     | No Limit           |
| EP074-UT: Methylene chloride                                         | 75-09-2    | 0.4                                 | mg/kg      | <0.4                              | <0.4  | 0.0             | No Limit         |         |                    |
| EP075(SIM)A: Phenolic Compounds (QC Lot: 4400535)                    |            |                                     |            |                                   |       |                 |                  |         |                    |
| EM2211061-033                                                        | BH09 - 0.1 | EP075(SIM): Phenol                  | 108-95-2   | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Chlorophenol          | 95-57-8    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Methylphenol          | 95-48-7    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Nitrophenol           | 88-75-5    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4-Dimethylphenol      | 105-67-9   | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4-Dichlorophenol      | 120-83-2   | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.6-Dichlorophenol      | 87-65-0    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4.6-Trichlorophenol   | 88-06-2    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4.5-Trichlorophenol   | 95-95-4    | 0.5                               | mg/kg | <1.2            | <1.2             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 3- & 4-Methylphenol     | 1319-77-3  | 1                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): Pentachlorophenol       | 87-86-5    | 2                                 | mg/kg | <2              | <2               | 0.0     | No Limit           |
| EM2211061-001                                                        | BH01 - 0.1 | EP075(SIM): Phenol                  | 108-95-2   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Chlorophenol          | 95-57-8    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Methylphenol          | 95-48-7    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2-Nitrophenol           | 88-75-5    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4-Dimethylphenol      | 105-67-9   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4-Dichlorophenol      | 120-83-2   | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.6-Dichlorophenol      | 87-65-0    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4.6-Trichlorophenol   | 88-06-2    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 2.4.5-Trichlorophenol   | 95-95-4    | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                      |            | EP075(SIM): 3- & 4-Methylphenol     | 1319-77-3  | 1                                 | mg/kg | <1              | <1               | 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)A: Phenolic Compounds (QC Lot: 4400535) - continued    |            |                                     |            |                                   |          |                 |                  |         |                    |     |          |
| EM2211061-001                                                    | BH01 - 0.1 | EP075(SIM): Pentachlorophenol       | 87-86-5    | 2                                 | mg/kg    | <2              | <2               | 0.0     | No Limit           |     |          |
| EP075(SIM)A: Phenolic Compounds (QC Lot: 4403571)                |            |                                     |            |                                   |          |                 |                  |         |                    |     |          |
| EM2211061-026                                                    | SP07       | EP075(SIM): Phenol                  | 108-95-2   | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2-Chlorophenol          | 95-57-8    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2-Methylphenol          | 95-48-7    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2-Nitrophenol           | 88-75-5    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2,4-Dimethylphenol      | 105-67-9   | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2,4-Dichlorophenol      | 120-83-2   | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2,6-Dichlorophenol      | 87-65-0    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2,4,6-Trichlorophenol   | 88-06-2    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 2,4,5-Trichlorophenol   | 95-95-4    | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): 3- & 4-Methylphenol     | 1319-77-3  | 1                                 | mg/kg    | <1              | <1               | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Pentachlorophenol       | 87-86-5    | 2                                 | mg/kg    | <2              | <2               | 0.0     | No Limit           |     |          |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4400535) |            |                                     |            |                                   |          |                 |                  |         |                    |     |          |
| EM2211061-033                                                    | BH09 - 0.1 | EP075(SIM): Naphthalene             | 91-20-3    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Acenaphthylene          | 208-96-8   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Acenaphthene            | 83-32-9    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Fluorene                | 86-73-7    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Phenanthrene            | 85-01-8    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Anthracene              | 120-12-7   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Fluoranthene            | 206-44-0   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Pyrene                  | 129-00-0   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Benz(a)anthracene       | 56-55-3    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Chrysene                | 218-01-9   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Benzo(b+j)fluoranthene  | 205-99-2   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            |                                     | 205-82-3   |                                   |          |                 |                  |         |                    |     |          |
|                                                                  |            | EP075(SIM): Benzo(k)fluoranthene    | 207-08-9   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Benzo(a)pyrene          | 50-32-8    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Indeno(1.2.3.cd)pyrene  | 193-39-5   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Dibenz(a,h)anthracene   | 53-70-3    | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EP075(SIM): Benzo(g,h,i)perylene    | 191-24-2   | 0.5                               | mg/kg    | <1.2            | <1.2             | 0.0     | No Limit           |     |          |
|                                                                  |            | EM2211061-001                       | BH01 - 0.1 | EP075(SIM): Naphthalene           | 91-20-3  | 0.5             | mg/kg            | <0.5    | <0.5               | 0.0 | No Limit |
|                                                                  |            |                                     |            | EP075(SIM): Acenaphthylene        | 208-96-8 | 0.5             | mg/kg            | <0.5    | <0.5               | 0.0 | No Limit |
|                                                                  |            |                                     |            | EP075(SIM): Acenaphthene          | 83-32-9  | 0.5             | mg/kg            | <0.5    | <0.5               | 0.0 | No Limit |
| EP075(SIM): Fluorene                                             | 86-73-7    |                                     |            | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
| EP075(SIM): Phenanthrene                                         | 85-01-8    |                                     |            | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
| EP075(SIM): Anthracene                                           | 120-12-7   |                                     |            | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
| EP075(SIM): Fluoranthene                                         | 206-44-0   |                                     |            | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |
| EP075(SIM): Pyrene                                               | 129-00-0   |                                     |            | 0.5                               | mg/kg    | <0.5            | <0.5             | 0.0     | No Limit           |     |          |



| 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: 4400535) - continued |            |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                                | BH01 - 0.1 | 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)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4403571)             |            |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2211061-026                                                                | SP07       | 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           |
| EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4400516)                   |            |                                               |                   |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                                | Anonymous  | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0           | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7           | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5          | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4           | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2           | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-90-2 | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: Pentachlorophenol                   | 87-86-5           | 0.2                               | mg/kg | <0.3            | <0.3             | 0.0     | No Limit           |
| EM2211156-059                                                                | Anonymous  | EP075-EM: 2-Chlorophenol                      | 95-57-8           | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                              |            | EP075-EM: 2,4-Dichlorophenol                  | 120-83-2          | 0.03                              | mg/kg | <0.03           | <0.03            | 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 (%) |
| EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4400516) - continued |           |                                               |                |                                   |       |                 |                  |         |                    |
| EM2211156-059                                                          | Anonymous | EP075-EM: 2,6-Dichlorophenol                  | 87-65-0        | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 4-Chloro-3-methylphenol             | 59-50-7        | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,3,5,6-Tetrachlorophenol           | 935-95-5       | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4,5-Trichlorophenol               | 95-95-4        | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4,6-Trichlorophenol               | 88-06-2        | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | 4901-51-3/58-9 | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                        |           | 0-2                                           |                |                                   |       |                 |                  |         |                    |
|                                                                        |           | EP075-EM: Pentachlorophenol                   | 87-86-5        | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
| EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4400516)         |           |                                               |                |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                          | Anonymous | EP075-EM: Phenol                              | 108-95-2       | 1                                 | mg/kg | 2               | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Methylphenol                      | 95-48-7        | 1                                 | mg/kg | 1               | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 3- & 4-Methylphenol                 | 1319-77-3      | 1                                 | mg/kg | 2               | 2                | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Nitrophenol                       | 88-75-5        | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4-Dimethylphenol                  | 105-67-9       | 1                                 | mg/kg | 1               | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4-Dinitrophenol                   | 51-28-5        | 5                                 | mg/kg | <6              | <6               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 4-Nitrophenol                       | 100-02-7       | 5                                 | mg/kg | <6              | <6               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Methyl-4,6-dinitrophenol          | 8071-51-0      | 5                                 | mg/kg | <6              | <6               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: Dinoseb                             | 88-85-7        | 5                                 | mg/kg | <6              | <6               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol      | 131-89-5       | 5                                 | mg/kg | <6              | <6               | 0.0     | No Limit           |
| EM2211156-059                                                          | Anonymous | EP075-EM: Phenol                              | 108-95-2       | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Methylphenol                      | 95-48-7        | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 3- & 4-Methylphenol                 | 1319-77-3      | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Nitrophenol                       | 88-75-5        | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4-Dimethylphenol                  | 105-67-9       | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2,4-Dinitrophenol                   | 51-28-5        | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 4-Nitrophenol                       | 100-02-7       | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Methyl-4,6-dinitrophenol          | 8071-51-0      | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: Dinoseb                             | 88-85-7        | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
|                                                                        |           | EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol      | 131-89-5       | 5                                 | mg/kg | <5              | <5               | 0.0     | No Limit           |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4400516)            |           |                                               |                |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                          | Anonymous | EP075-EM: Naphthalene                         | 91-20-3        | 0.5                               | mg/kg | 2.4             | 1.8              | 29.8    | No Limit           |
|                                                                        |           | EP075-EM: Acenaphthene                        | 83-32-9        | 0.5                               | mg/kg | 1.7             | 0.7              | 85.2    | No Limit           |
|                                                                        |           | EP075-EM: Acenaphthylene                      | 208-96-8       | 0.5                               | mg/kg | 20.2            | # 11.3           | 56.8    | 0% - 20%           |
|                                                                        |           | EP075-EM: Fluorene                            | 86-73-7        | 0.5                               | mg/kg | 9.7             | # 4.7            | 69.4    | 0% - 50%           |
|                                                                        |           | EP075-EM: Phenanthrene                        | 85-01-8        | 0.5                               | mg/kg | 108             | # 74.5           | 36.7    | 0% - 20%           |
|                                                                        |           | EP075-EM: Anthracene                          | 120-12-7       | 0.5                               | mg/kg | 34.8            | # 23.5           | 39.0    | 0% - 20%           |
|                                                                        |           | EP075-EM: Fluoranthene                        | 206-44-0       | 0.5                               | mg/kg | 176             | # 117            | 40.1    | 0% - 20%           |
|                                                                        |           | EP075-EM: Pyrene                              | 129-00-0       | 0.5                               | mg/kg | 178             | # 121            | 37.8    | 0% - 20%           |
|                                                                        |           | EP075-EM: Benz(a)anthracene                   | 56-55-3        | 0.5                               | mg/kg | 101             | # 68.8           | 37.6    | 0% - 20%           |
|                                                                        |           | EP075-EM: Chrysene                            | 218-01-9       | 0.5                               | mg/kg | 89.7            | # 58.5           | 42.0    | 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 (%) |
| EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4400516) - continued |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                           | Anonymous | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | 99.8            | # 66.3           | 40.3    | 0% - 20%           |
|                                                                         |           | EP075-EM: Indeno(1.2.3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | 32.7            | # 23.2           | 33.9    | 0% - 20%           |
|                                                                         |           | EP075-EM: Dibenz(a.h)anthracene             | 53-70-3              | 0.5                               | mg/kg | 9.8             | 6.9              | 34.9    | 0% - 50%           |
|                                                                         |           | EP075-EM: Benzo(g.h.i)perylene              | 191-24-2             | 0.5                               | mg/kg | 30.4            | # 22.2           | 31.1    | 0% - 20%           |
|                                                                         |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | 170             | # 109            | 43.6    | 0% - 20%           |
| EM2211156-059                                                           | Anonymous | EP075-EM: Naphthalene                       | 91-20-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Acenaphthene                      | 83-32-9              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Acenaphthylene                    | 208-96-8             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Fluorene                          | 86-73-7              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Phenanthrene                      | 85-01-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Anthracene                        | 120-12-7             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Fluoranthene                      | 206-44-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Pyrene                            | 129-00-0             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benz(a)anthracene                 | 56-55-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Chrysene                          | 218-01-9             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(a)pyrene                    | 50-32-8              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Indeno(1.2.3.cd)pyrene            | 193-39-5             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dibenz(a.h)anthracene             | 53-70-3              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(g.h.i)perylene              | 191-24-2             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene | 205-99-2<br>207-08-9 | 1                                 | mg/kg | <1.0            | <1.0             | 0.0     | No Limit           |
| EP075I: Organochlorine Pesticides (QC Lot: 4400516)                     |           |                                             |                      |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                           | Anonymous | EP075-EM: alpha-BHC                         | 319-84-6             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Hexachlorobenzene (HCB)           | 118-74-1             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: beta-BHC                          | 319-85-7             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: gamma-BHC                         | 58-89-9              | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: delta-BHC                         | 319-86-8             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor                        | 76-44-8              | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Aldrin                            | 309-00-2             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Heptachlor epoxide                | 1024-57-3            | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: cis-Chlordane                     | 5103-71-9            | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: trans-Chlordane                   | 5103-74-2            | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 1                      | 959-98-8             | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Dieldrin                          | 60-57-1              | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin aldehyde                   | 7421-93-4            | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endrin                            | 72-20-8              | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan 2                      | 33213-65-9           | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Endosulfan sulfate                | 1031-07-8            | 0.03                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                         |           | EP075-EM: Methoxyvchlor                     | 72-43-5              | 0.03                              | mg/kg | <0.14           | <0.14            | 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 (%) |
| EP075I: Organochlorine Pesticides (QC Lot: 4400516) - continued |            |                                    |            |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                   | Anonymous  | EP075-EM: 4.4`-DDE                 | 72-55-9    | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: 4.4`-DDD                 | 72-54-8    | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: 4.4`-DDT                 | 50-29-3    | 0.05                              | mg/kg | <0.14           | <0.14            | 0.0     | No Limit           |
| EM2211156-059                                                   | Anonymous  | EP075-EM: alpha-BHC                | 319-84-6   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Hexachlorobenzene (HCB)  | 118-74-1   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: beta-BHC                 | 319-85-7   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: gamma-BHC                | 58-89-9    | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: delta-BHC                | 319-86-8   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Heptachlor               | 76-44-8    | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Aldrin                   | 309-00-2   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Heptachlor epoxide       | 1024-57-3  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: cis-Chlordane            | 5103-71-9  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: trans-Chlordane          | 5103-74-2  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Endosulfan 1             | 959-98-8   | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Dieldrin                 | 60-57-1    | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Endrin aldehyde          | 7421-93-4  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Endrin                   | 72-20-8    | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Endosulfan 2             | 33213-65-9 | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Endosulfan sulfate       | 1031-07-8  | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: Methoxychlor             | 72-43-5    | 0.03                              | mg/kg | <0.03           | <0.03            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: 4.4`-DDE                 | 72-55-9    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: 4.4`-DDD                 | 72-54-8    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
|                                                                 |            | EP075-EM: 4.4`-DDT                 | 50-29-3    | 0.05                              | mg/kg | <0.05           | <0.05            | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4400434)       |            |                                    |            |                                   |       |                 |                  |         |                    |
| EM2210946-002                                                   | Anonymous  | EP074-UT: C6 - C9 Fraction         | ----       | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4400437)       |            |                                    |            |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                   | BH01 - 0.1 | EP080: C6 - C9 Fraction            | ----       | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EM2211061-031                                                   | BH09 - 0.5 | EP080: C6 - C9 Fraction            | ----       | 10                                | mg/kg | <10             | <10              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4400517)       |            |                                    |            |                                   |       |                 |                  |         |                    |
| EM2211035-001                                                   | Anonymous  | EP071-EM: C15 - C28 Fraction       | ----       | 100                               | mg/kg | 4070            | 3340             | 19.6    | 0% - 20%           |
|                                                                 |            | EP071-EM: C29 - C36 Fraction       | ----       | 100                               | mg/kg | 2330            | 2100             | 10.2    | 0% - 20%           |
|                                                                 |            | EP071-EM: C10 - C14 Fraction       | ----       | 50                                | mg/kg | 100             | 80               | 23.7    | No Limit           |
|                                                                 |            | EP071-EM: C10 - C36 Fraction (sum) | ----       | 50                                | mg/kg | 6500            | 5520             | 16.3    | 0% - 20%           |
| EM2211156-059                                                   | Anonymous  | EP071-EM: C15 - C28 Fraction       | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                 |            | EP071-EM: C29 - C36 Fraction       | ----       | 100                               | mg/kg | <100            | <100             | 0.0     | No Limit           |
|                                                                 |            | EP071-EM: C10 - C14 Fraction       | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
|                                                                 |            | EP071-EM: C10 - C36 Fraction (sum) | ----       | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4400533)       |            |                                    |            |                                   |       |                 |                  |         |                    |
| EM2211061-033                                                   | BH09 - 0.1 | EP071: C15 - C28 Fraction          | ----       | 100                               | mg/kg | 2000            | 2150             | 7.4     | 0% - 20%           |

**EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4403549)**



| Sub-Matrix: SOIL                                                                              |            |                                    |                      | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
|-----------------------------------------------------------------------------------------------|------------|------------------------------------|----------------------|-----------------------------------|-------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                                          | Sample ID  | Method: Compound                   | CAS Number           | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4403549) - continued |            |                                    |                      |                                   |       |                 |                  |         |                    |
| EM2210115-103                                                                                 | Anonymous  | EP080: C6 - C10 Fraction           | C6_C10               | 10                                | mg/kg | 18              | 18               | 0.0     | No Limit           |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4403572)             |            |                                    |                      |                                   |       |                 |                  |         |                    |
| EM2211061-026                                                                                 | SP07       | 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           |
|                                                                                               |            | EP071: >C10 - C40 Fraction (sum)   | ----                 | 50                                | mg/kg | <50             | <50              | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 4400437)                                                                |            |                                    |                      |                                   |       |                 |                  |         |                    |
| EM2211061-001                                                                                 | BH01 - 0.1 | EP080: Benzene                     | 71-43-2              | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                                               |            | EP080: Toluene                     | 108-88-3             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |            | EP080: Ethylbenzene                | 100-41-4             | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |            | EP080: meta- & para-Xylene         | 108-38-3<br>106-42-3 | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |            | 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           |
| EM2211061-031                                                                                 | BH09 - 0.5 | 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<br>106-42-3 | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |            | EP080: ortho-Xylene                | 95-47-6              | 0.5                               | mg/kg | <0.5            | <0.5             | 0.0     | No Limit           |
|                                                                                               |            | EP080: Naphthalene                 | 91-20-3              | 1                                 | mg/kg | <1              | <1               | 0.0     | No Limit           |
| EP080: BTEXN (QC Lot: 4403549)                                                                |            |                                    |                      |                                   |       |                 |                  |         |                    |
| EM2210115-103                                                                                 | Anonymous  | EP080: Benzene                     | 71-43-2              | 0.2                               | mg/kg | <0.2            | <0.2             | 0.0     | No Limit           |
|                                                                                               |            | EP080: Toluene                     | 108-88-3             | 0.5                               | mg/kg | 3.2             | 3.2              | 0.0     | No Limit           |
|                                                                                               |            | EP080: Ethylbenzene                | 100-41-4             | 0.5                               | mg/kg | 0.7             | 0.7              | 0.0     | No Limit           |
|                                                                                               |            | EP080: meta- & para-Xylene         | 108-38-3<br>106-42-3 | 0.5                               | mg/kg | 1.7             | 1.8              | 0.0     | No Limit           |
|                                                                                               |            | EP080: ortho-Xylene                | 95-47-6              | 0.5                               | mg/kg | 0.8             | 0.8              | 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: 4404347)                               |            |                                    |                      |                                   |       |                 |                  |         |                    |
| EM2210264-004                                                                                 | 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         |         |                    |

| 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 (%) |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QC Lot: 4404347) - continued |           |                     |            |                                   |       |                 |                  |         |                    |
| EM2210264-004                                                               | Anonymous | 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           |
| Sub-Matrix: <b>WATER</b>                                                    |           |                     |            | Laboratory Duplicate (DUP) Report |       |                 |                  |         |                    |
| Laboratory sample ID                                                        | Sample ID | Method: Compound    | CAS Number | LOR                               | Unit  | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| EG020T: Total Metals by ICP-MS (QC Lot: 4396945)                            |           |                     |            |                                   |       |                 |                  |         |                    |
| EM2210986-003                                                               | Anonymous | EG020A-T: Cadmium   | 7440-43-9  | 0.0001                            | mg/L  | <0.0001         | 0.0003           | 86.1    | No Limit           |
|                                                                             |           | EG020A-T: Arsenic   | 7440-38-2  | 0.001                             | mg/L  | 0.001           | 0.003            | 87.3    | No Limit           |
|                                                                             |           | EG020A-T: Beryllium | 7440-41-7  | 0.001                             | mg/L  | <0.001          | 0.002            | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Barium    | 7440-39-3  | 0.001                             | mg/L  | 0.053           | 0.055            | 5.0     | 0% - 20%           |
|                                                                             |           | EG020A-T: Chromium  | 7440-47-3  | 0.001                             | mg/L  | 0.005           | 0.006            | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Cobalt    | 7440-48-4  | 0.001                             | mg/L  | 0.009           | 0.013            | 40.3    | 0% - 50%           |
|                                                                             |           | EG020A-T: Copper    | 7440-50-8  | 0.001                             | mg/L  | 0.010           | 0.015            | 36.1    | 0% - 50%           |
|                                                                             |           | EG020A-T: Lead      | 7439-92-1  | 0.001                             | mg/L  | 0.004           | 0.006            | 41.6    | No Limit           |
|                                                                             |           | EG020A-T: Manganese | 7439-96-5  | 0.001                             | mg/L  | 0.278           | 0.281            | 0.9     | 0% - 20%           |
|                                                                             |           | EG020A-T: Nickel    | 7440-02-0  | 0.001                             | mg/L  | 0.013           | 0.014            | 8.8     | 0% - 50%           |
|                                                                             |           | EG020A-T: Zinc      | 7440-66-6  | 0.005                             | mg/L  | 0.024           | 0.034            | 34.1    | No Limit           |
|                                                                             |           | EG020A-T: Selenium  | 7782-49-2  | 0.01                              | mg/L  | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Vanadium  | 7440-62-2  | 0.01                              | mg/L  | 0.02            | 0.03             | 47.2    | No Limit           |
| EG020A-T: Boron                                                             | 7440-42-8 | 0.05                | mg/L       | <0.05                             | <0.05 | 0.0             | No Limit         |         |                    |
| EM2211053-018                                                               | Anonymous | EG020A-T: Cadmium   | 7440-43-9  | 0.0001                            | mg/L  | <0.0001         | <0.0001          | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Arsenic   | 7440-38-2  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Beryllium | 7440-41-7  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Barium    | 7440-39-3  | 0.001                             | mg/L  | <0.001          | 0.001            | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Chromium  | 7440-47-3  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Cobalt    | 7440-48-4  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Copper    | 7440-50-8  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Lead      | 7439-92-1  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Manganese | 7439-96-5  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Nickel    | 7440-02-0  | 0.001                             | mg/L  | <0.001          | <0.001           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Zinc      | 7440-66-6  | 0.005                             | mg/L  | <0.005          | <0.005           | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Selenium  | 7782-49-2  | 0.01                              | mg/L  | <0.01           | <0.01            | 0.0     | No Limit           |
|                                                                             |           | EG020A-T: Vanadium  | 7440-62-2  | 0.01                              | mg/L  | <0.01           | <0.01            | 0.0     | No Limit           |
| EG020A-T: Boron                                                             | 7440-42-8 | 0.05                | mg/L       | <0.05                             | <0.05 | 0.0             | No Limit         |         |                    |
| EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4398048)                 |           |                     |            |                                   |       |                 |                  |         |                    |
| EM2210631-038                                                               | Anonymous | EG035T: Mercury     | 7439-97-6  | 0.0001                            | mg/L  | <0.0001         | <0.0001          | 0.0     | No Limit           |
| EM2210955-016                                                               | Anonymous | EG035T: Mercury     | 7439-97-6  | 0.0001                            | mg/L  | <0.0001         | <0.0001          | 0.0     | No Limit           |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4394056)                   |           |                     |            |                                   |       |                 |                  |         |                    |





Sub-Matrix: **WATER**

|                                                                                          |           |                            |            | Laboratory Duplicate (DUP) Report |      |                 |                  |         |                    |
|------------------------------------------------------------------------------------------|-----------|----------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|--------------------|
| Laboratory sample ID                                                                     | Sample ID | Method: Compound           | CAS Number | LOR                               | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| <b>EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4394056) - continued</b>             |           |                            |            |                                   |      |                 |                  |         |                    |
| EB2216475-001                                                                            | Anonymous | EP080: C6 - C9 Fraction    | ----       | 20                                | µg/L | <20             | <20              | 0.0     | No Limit           |
| EM2210827-034                                                                            | Anonymous | EP080: C6 - C9 Fraction    | ----       | 20                                | µg/L | <20             | <20              | 0.0     | No Limit           |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4394056)</b> |           |                            |            |                                   |      |                 |                  |         |                    |
| EB2216475-001                                                                            | Anonymous | EP080: C6 - C10 Fraction   | C6_C10     | 20                                | µg/L | <20             | <20              | 0.0     | No Limit           |
| EM2210827-034                                                                            | Anonymous | EP080: C6 - C10 Fraction   | C6_C10     | 20                                | µg/L | <20             | <20              | 0.0     | No Limit           |
| <b>EP080: BTEXN (QC Lot: 4394056)</b>                                                    |           |                            |            |                                   |      |                 |                  |         |                    |
| EB2216475-001                                                                            | Anonymous | EP080: Benzene             | 71-43-2    | 1                                 | µg/L | <1              | <1               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                                                          |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
| EM2210827-034                                                                            | Anonymous | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Benzene             | 71-43-2    | 1                                 | µg/L | <1              | <1               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Toluene             | 108-88-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Ethylbenzene        | 100-41-4   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           | EP080: meta- & para-Xylene | 108-38-3   | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           |                            | 106-42-3   |                                   |      |                 |                  |         |                    |
|                                                                                          |           | EP080: ortho-Xylene        | 95-47-6    | 2                                 | µg/L | <2              | <2               | 0.0     | No Limit           |
|                                                                                          |           | EP080: Naphthalene         | 91-20-3    | 5                                 | µg/L | <5              | <5               | 0.0     | No Limit           |



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

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

Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                        |      |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4400651) |            |     |       |                             |                                       |                           |                                        |      |
| EG005T: Arsenic                                         | 7440-38-2  | 5   | mg/kg | <5                          | 123 mg/kg                             | 97.2                      | 70.0                                   | 130  |
| EG005T: Barium                                          | 7440-39-3  | 10  | mg/kg | <10                         | 99.3 mg/kg                            | 90.0                      | 70.0                                   | 130  |
| EG005T: Beryllium                                       | 7440-41-7  | 1   | mg/kg | <1                          | 0.67 mg/kg                            | 94.1                      | 70.0                                   | 130  |
| EG005T: Boron                                           | 7440-42-8  | 50  | mg/kg | <50                         | ----                                  | ----                      | ----                                   | ---- |
| EG005T: Cadmium                                         | 7440-43-9  | 1   | mg/kg | <1                          | 1.23 mg/kg                            | 119                       | 50.0                                   | 130  |
| EG005T: Chromium                                        | 7440-47-3  | 2   | mg/kg | <2                          | 20.2 mg/kg                            | 89.9                      | 70.0                                   | 130  |
| EG005T: Cobalt                                          | 7440-48-4  | 2   | mg/kg | <2                          | 11.2 mg/kg                            | 91.0                      | 70.0                                   | 130  |
| EG005T: Copper                                          | 7440-50-8  | 5   | mg/kg | <5                          | 55.9 mg/kg                            | 87.4                      | 70.0                                   | 130  |
| EG005T: Iron                                            | 7439-89-6  | 50  | mg/kg | <50                         | 33227 mg/kg                           | 98.6                      | 70.0                                   | 130  |
| EG005T: Lead                                            | 7439-92-1  | 5   | mg/kg | <5                          | 62.4 mg/kg                            | 89.8                      | 70.0                                   | 130  |
| EG005T: Manganese                                       | 7439-96-5  | 5   | mg/kg | <5                          | 590 mg/kg                             | 87.8                      | 70.0                                   | 130  |
| EG005T: Molybdenum                                      | 7439-98-7  | 2   | mg/kg | <2                          | 2.19 mg/kg                            | 79.1                      | 70.0                                   | 130  |
| EG005T: Nickel                                          | 7440-02-0  | 2   | mg/kg | <2                          | 15.4 mg/kg                            | 92.0                      | 70.0                                   | 130  |
| EG005T: Selenium                                        | 7782-49-2  | 5   | mg/kg | <5                          | ----                                  | ----                      | ----                                   | ---- |
| EG005T: Silver                                          | 7440-22-4  | 2   | mg/kg | <2                          | 2.9 mg/kg                             | 70.4                      | 70.0                                   | 130  |
| EG005T: Tin                                             | 7440-31-5  | 5   | mg/kg | <5                          | 5.33 mg/kg                            | 93.9                      | 70.0                                   | 130  |
| EG005T: Vanadium                                        | 7440-62-2  | 5   | mg/kg | <5                          | 61.3 mg/kg                            | 89.3                      | 70.0                                   | 130  |
| EG005T: Zinc                                            | 7440-66-6  | 5   | mg/kg | <5                          | 162 mg/kg                             | 73.5                      | 70.0                                   | 130  |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4400652) |            |     |       |                             |                                       |                           |                                        |      |
| EG005T: Arsenic                                         | 7440-38-2  | 5   | mg/kg | <5                          | 123 mg/kg                             | 101                       | 70.0                                   | 130  |
| EG005T: Barium                                          | 7440-39-3  | 10  | mg/kg | <10                         | 99.3 mg/kg                            | 90.4                      | 70.0                                   | 130  |
| EG005T: Beryllium                                       | 7440-41-7  | 1   | mg/kg | <1                          | 0.67 mg/kg                            | 94.3                      | 70.0                                   | 130  |
| EG005T: Boron                                           | 7440-42-8  | 50  | mg/kg | <50                         | ----                                  | ----                      | ----                                   | ---- |
| EG005T: Cadmium                                         | 7440-43-9  | 1   | mg/kg | <1                          | 1.23 mg/kg                            | 115                       | 50.0                                   | 130  |
| EG005T: Chromium                                        | 7440-47-3  | 2   | mg/kg | <2                          | 20.2 mg/kg                            | 92.5                      | 70.0                                   | 130  |
| EG005T: Cobalt                                          | 7440-48-4  | 2   | mg/kg | <2                          | 11.2 mg/kg                            | 95.5                      | 70.0                                   | 130  |
| EG005T: Copper                                          | 7440-50-8  | 5   | mg/kg | <5                          | 55.9 mg/kg                            | 87.9                      | 70.0                                   | 130  |
| EG005T: Iron                                            | 7439-89-6  | 50  | mg/kg | <50                         | 33227 mg/kg                           | 102                       | 70.0                                   | 130  |
| EG005T: Lead                                            | 7439-92-1  | 5   | mg/kg | <5                          | 62.4 mg/kg                            | 92.9                      | 70.0                                   | 130  |
| EG005T: Manganese                                       | 7439-96-5  | 5   | mg/kg | <5                          | 590 mg/kg                             | 91.0                      | 70.0                                   | 130  |
| EG005T: Molybdenum                                      | 7439-98-7  | 2   | mg/kg | <2                          | 2.19 mg/kg                            | 71.0                      | 70.0                                   | 130  |
| EG005T: Nickel                                          | 7440-02-0  | 2   | mg/kg | <2                          | 15.4 mg/kg                            | 94.6                      | 70.0                                   | 130  |
| EG005T: Selenium                                        | 7782-49-2  | 5   | mg/kg | <5                          | ----                                  | ----                      | ----                                   | ---- |
| EG005T: Silver                                          | 7440-22-4  | 2   | mg/kg | <2                          | 2.9 mg/kg                             | 82.4                      | 70.0                                   | 130  |





| 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                      |                                       |                           |                                   |      |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4400652) - continued           |            |      |          |                             |                                       |                           |                                   |      |
| EG005T: Tin                                                                   | 7440-31-5  | 5    | mg/kg    | <5                          | 5.33 mg/kg                            | 87.0                      | 70.0                              | 130  |
| EG005T: Vanadium                                                              | 7440-62-2  | 5    | mg/kg    | <5                          | 61.3 mg/kg                            | 91.8                      | 70.0                              | 130  |
| EG005T: Zinc                                                                  | 7440-66-6  | 5    | mg/kg    | <5                          | 162 mg/kg                             | 76.9                      | 70.0                              | 130  |
| EA001: pH in soil using 0.01M CaCl extract (QCLot: 4400656)                   |            |      |          |                             |                                       |                           |                                   |      |
| EA001: pH (CaCl2)                                                             | ----       | ---- | pH Unit  | ----                        | 4 pH Unit                             | 101                       | 98.8                              | 101  |
|                                                                               |            |      |          | ----                        | 7 pH Unit                             | 100                       | 99.3                              | 101  |
| EA002-AD: pH (Soils) dried at 40°C (QCLot: 4403502)                           |            |      |          |                             |                                       |                           |                                   |      |
| EA002-AD: pH Value                                                            | ----       | ---- | pH Unit  | ----                        | 4 pH Unit                             | 100                       | 98.8                              | 101  |
|                                                                               |            |      |          | ----                        | 7 pH Unit                             | 100                       | 99.3                              | 101  |
| EA010-AD: Conductivity (Soils) dried at 40°C (QCLot: 4403501)                 |            |      |          |                             |                                       |                           |                                   |      |
| EA010-AD: Electrical Conductivity @ 25°C                                      | ----       | 1    | µS/cm    | <1                          | 1413 µS/cm                            | 99.8                      | 90.0                              | 110  |
| ED006: Exchangeable Cations on Alkaline Soils (QCLot: 4403505)                |            |      |          |                             |                                       |                           |                                   |      |
| ED006: Exchangeable Calcium                                                   | ----       | 0.2  | meq/100g | <0.2                        | 33 meq/100g                           | 86.7                      | 66.6                              | 101  |
| ED006: Exchangeable Magnesium                                                 | ----       | 0.2  | meq/100g | <0.2                        | 32 meq/100g                           | 79.3                      | 66.9                              | 120  |
| ED006: Exchangeable Potassium                                                 | ----       | 0.2  | meq/100g | <0.2                        | 2.2 meq/100g                          | 92.6                      | 72.8                              | 119  |
| ED006: Exchangeable Sodium                                                    | ----       | 0.2  | meq/100g | <0.2                        | 5.6 meq/100g                          | 96.9                      | 67.5                              | 112  |
| ED006: Cation Exchange Capacity                                               | ----       | 0.2  | meq/100g | <0.2                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Exchangeable Calcium Percent                                           | ----       | 0.2  | %        | <0.2                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Exchangeable Magnesium Percent                                         | ----       | 0.2  | %        | <0.2                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Exchangeable Potassium Percent                                         | ----       | 0.2  | %        | <0.2                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Exchangeable Sodium Percent                                            | ----       | 0.2  | %        | <0.2                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Calcium/Magnesium Ratio                                                | ----       | 0.1  | -        | <0.1                        | ----                                  | ----                      | ----                              | ---- |
| ED006: Magnesium/Potassium Ratio                                              | ----       | 0.1  | -        | <0.1                        | ----                                  | ----                      | ----                              | ---- |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 4400650)                    |            |      |          |                             |                                       |                           |                                   |      |
| EG035T: Mercury                                                               | 7439-97-6  | 0.1  | mg/kg    | <0.1                        | 0.64 mg/kg                            | 87.5                      | 70.0                              | 130  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 4400653)                    |            |      |          |                             |                                       |                           |                                   |      |
| EG035T: Mercury                                                               | 7439-97-6  | 0.1  | mg/kg    | <0.1                        | 0.64 mg/kg                            | 82.8                      | 70.0                              | 130  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4400826)                 |            |      |          |                             |                                       |                           |                                   |      |
| EG048G: Hexavalent Chromium                                                   | 18540-29-9 | 0.5  | mg/kg    | <0.5                        | 20 mg/kg                              | 80.3                      | 70.0                              | 130  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4403123)                 |            |      |          |                             |                                       |                           |                                   |      |
| EK026SF: Total Cyanide                                                        | 57-12-5    | 1    | mg/kg    | <1                          | 20 mg/kg                              | 84.2                      | 70.0                              | 130  |
| EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 4403126) |            |      |          |                             |                                       |                           |                                   |      |
| EK028SF: Weak Acid Dissociable Cyanide                                        | ----       | 1    | mg/kg    | <1                          | 20 mg/kg                              | 81.9                      | 70.0                              | 130  |
| EK040T: Fluoride Total (QCLot: 4400820)                                       |            |      |          |                             |                                       |                           |                                   |      |
| EK040T: Fluoride                                                              | 16984-48-8 | 40   | mg/kg    | <40                         | 400 mg/kg                             | 78.4                      | 75.2                              | 110  |
| EP004: Organic Matter (QCLot: 4405872)                                        |            |      |          |                             |                                       |                           |                                   |      |
| EP004: Organic Matter                                                         | ----       | 0.5  | %        | <0.5                        | 77 %                                  | 90.4                      | 70.0                              | 130  |



Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                   |     |
| EP004: Organic Matter (QCLot: 4405872) - continued        |            |      |       |                             |                                       |                           |                                   |     |
| EP004: Total Organic Carbon                               | ----       | 0.5  | %     | <0.5                        | 43.5 %                                | 92.9                      | 70.0                              | 130 |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4400518)   |            |      |       |                             |                                       |                           |                                   |     |
| EP066-EM: Total Polychlorinated biphenyls                 | ----       | 0.1  | mg/kg | <0.1                        | 1 mg/kg                               | 109                       | 67.4                              | 136 |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4400532)   |            |      |       |                             |                                       |                           |                                   |     |
| EP066: Total Polychlorinated biphenyls                    | ----       | 0.1  | mg/kg | <0.1                        | 1 mg/kg                               | 89.7                      | 68.0                              | 133 |
| EP068A: Organochlorine Pesticides (OC) (QCLot: 4400531)   |            |      |       |                             |                                       |                           |                                   |     |
| EP068: alpha-BHC                                          | 319-84-6   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 79.0                      | 71.8                              | 126 |
| EP068: Hexachlorobenzene (HCB)                            | 118-74-1   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 80.4                      | 72.2                              | 125 |
| EP068: beta-BHC                                           | 319-85-7   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.5                      | 70.0                              | 124 |
| EP068: gamma-BHC                                          | 58-89-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 79.0                      | 69.1                              | 124 |
| EP068: delta-BHC                                          | 319-86-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 80.5                      | 69.2                              | 125 |
| EP068: Heptachlor                                         | 76-44-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 77.4                      | 66.6                              | 122 |
| EP068: Aldrin                                             | 309-00-2   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 80.2                      | 68.8                              | 123 |
| EP068: Heptachlor epoxide                                 | 1024-57-3  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.8                      | 67.2                              | 124 |
| EP068: trans-Chlordane                                    | 5103-74-2  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 85.4                      | 66.0                              | 126 |
| EP068: alpha-Endosulfan                                   | 959-98-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.0                      | 70.2                              | 126 |
| EP068: cis-Chlordane                                      | 5103-71-9  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 83.3                      | 72.1                              | 124 |
| EP068: Dieldrin                                           | 60-57-1    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 80.4                      | 68.0                              | 122 |
| EP068: 4,4`-DDE                                           | 72-55-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 82.9                      | 68.9                              | 124 |
| EP068: Endrin                                             | 72-20-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 71.1                      | 55.8                              | 130 |
| EP068: beta-Endosulfan                                    | 33213-65-9 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 86.4                      | 67.9                              | 124 |
| EP068: 4,4`-DDD                                           | 72-54-8    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 77.9                      | 72.0                              | 127 |
| EP068: Endrin aldehyde                                    | 7421-93-4  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 96.4                      | 66.3                              | 131 |
| EP068: Endosulfan sulfate                                 | 1031-07-8  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 95.1                      | 62.4                              | 131 |
| EP068: 4,4`-DDT                                           | 50-29-3    | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 88.2                      | 55.4                              | 130 |
| EP068: Endrin ketone                                      | 53494-70-5 | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 98.3                      | 68.8                              | 128 |
| EP068: Methoxychlor                                       | 72-43-5    | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 86.8                      | 55.5                              | 132 |
| EP068: Mirex                                              | 2385-85-5  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 97.2                      | 92.4                              | 102 |
| EP068B: Organophosphorus Pesticides (OP) (QCLot: 4400531) |            |      |       |                             |                                       |                           |                                   |     |
| EP068: Dichlorvos                                         | 62-73-7    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 97.4                      | 65.6                              | 127 |
| EP068: Demeton-S-methyl                                   | 919-86-8   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 78.4                      | 63.0                              | 129 |
| EP068: Monocrotophos                                      | 6923-22-4  | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 53.4                      | 10.0                              | 136 |
| EP068: Dimethoate                                         | 60-51-5    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 77.4                      | 58.3                              | 128 |
| EP068: Diazinon                                           | 333-41-5   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 81.0                      | 69.0                              | 122 |
| EP068: Chlorpyrifos-methyl                                | 5598-13-0  | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 76.8                      | 68.0                              | 122 |
| EP068: Parathion-methyl                                   | 298-00-0   | 0.2  | mg/kg | <0.2                        | 0.5 mg/kg                             | 73.8                      | 59.6                              | 124 |
| EP068: Malathion                                          | 121-75-5   | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 78.6                      | 63.8                              | 128 |
| EP068: Fenthion                                           | 55-38-9    | 0.05 | mg/kg | <0.05                       | 0.5 mg/kg                             | 79.6                      | 71.1                              | 124 |



Sub-Matrix: **SOIL**

| Method: Compound                                                             |            |      |       | Method Blank (MB)<br>Report<br>Result | Laboratory Control Spike (LCS) Report |                           |                       |      |
|------------------------------------------------------------------------------|------------|------|-------|---------------------------------------|---------------------------------------|---------------------------|-----------------------|------|
|                                                                              |            |      |       |                                       | Spike<br>Concentration                | Spike Recovery (%)<br>LCS | Acceptable Limits (%) |      |
|                                                                              |            |      |       |                                       |                                       |                           | Low                   | High |
| CAS Number                                                                   | LOR        | Unit |       |                                       |                                       |                           |                       |      |
| <b>EP068B: Organophosphorus Pesticides (OP) (QCLot: 4400531) - continued</b> |            |      |       |                                       |                                       |                           |                       |      |
| EP068: Chlorpyrifos                                                          | 2921-88-2  | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 81.8                      | 67.4                  | 126  |
| EP068: Parathion                                                             | 56-38-2    | 0.2  | mg/kg | <0.2                                  | 0.5 mg/kg                             | 70.0                      | 57.9                  | 122  |
| EP068: Pirimphos-ethyl                                                       | 23505-41-1 | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 82.4                      | 66.2                  | 123  |
| EP068: Chlorfenvinphos                                                       | 470-90-6   | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 64.1                      | 59.8                  | 123  |
| EP068: Bromophos-ethyl                                                       | 4824-78-6  | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 80.0                      | 65.4                  | 127  |
| EP068: Fenamiphos                                                            | 22224-92-6 | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 59.6                      | 52.1                  | 128  |
| EP068: Prothiofos                                                            | 34643-46-4 | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 79.1                      | 65.2                  | 122  |
| EP068: Ethion                                                                | 563-12-2   | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 69.8                      | 63.2                  | 124  |
| EP068: Carbophenothion                                                       | 786-19-6   | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 92.5                      | 65.9                  | 127  |
| EP068: Azinphos Methyl                                                       | 86-50-0    | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 130                       | 43.1                  | 131  |
| <b>EP068C: Triazines (QCLot: 4400531)</b>                                    |            |      |       |                                       |                                       |                           |                       |      |
| EP068: Atrazine                                                              | 1912-24-9  | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 78.0                      | 72.5                  | 126  |
| <b>EP068D: Pyrethroids (QCLot: 4400531)</b>                                  |            |      |       |                                       |                                       |                           |                       |      |
| EP068: Bifenthrin                                                            | 82657-04-3 | 0.05 | mg/kg | <0.05                                 | 0.5 mg/kg                             | 94.4                      | 67.9                  | 128  |
| <b>EP069: Toxaphene (QCLot: 4400534)</b>                                     |            |      |       |                                       |                                       |                           |                       |      |
| EP069: Toxaphene                                                             | 8001-35-2  | 2    | mg/kg | <2                                    | 10 mg/kg                              | 66.6                      | 64.0                  | 132  |
| <b>EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4400434)</b>             |            |      |       |                                       |                                       |                           |                       |      |
| EP074-UT: Benzene                                                            | 71-43-2    | 0.2  | mg/kg | <0.2                                  | 2.1 mg/kg                             | 89.5                      | 69.2                  | 116  |
| EP074-UT: Toluene                                                            | 108-88-3   | 0.5  | mg/kg | <0.5                                  | 2.1 mg/kg                             | 90.4                      | 67.7                  | 116  |
| EP074-UT: Ethylbenzene                                                       | 100-41-4   | 0.5  | mg/kg | <0.5                                  | 2.1 mg/kg                             | 89.6                      | 66.6                  | 115  |
| EP074-UT: meta- & para-Xylene                                                | 108-38-3   | 0.5  | mg/kg | <0.5                                  | 4.2 mg/kg                             | 86.4                      | 65.2                  | 112  |
|                                                                              | 106-42-3   |      |       |                                       |                                       |                           |                       |      |
| EP074-UT: Styrene                                                            | 100-42-5   | 0.5  | mg/kg | <0.5                                  | 2.1 mg/kg                             | 88.7                      | 69.4                  | 111  |
| EP074-UT: ortho-Xylene                                                       | 95-47-6    | 0.5  | mg/kg | <0.5                                  | 2.1 mg/kg                             | 88.1                      | 68.4                  | 110  |
| <b>EP074H: Naphthalene (QCLot: 4400434)</b>                                  |            |      |       |                                       |                                       |                           |                       |      |
| EP074-UT: Naphthalene                                                        | 91-20-3    | 1    | mg/kg | <1                                    | 0.6 mg/kg                             | 82.9                      | 72.3                  | 114  |
| <b>EP074I: Volatile Halogenated Compounds (QCLot: 4400434)</b>               |            |      |       |                                       |                                       |                           |                       |      |
| EP074-UT: Vinyl chloride                                                     | 75-01-4    | 0.02 | mg/kg | <0.02                                 | 0.1 mg/kg                             | 82.9                      | 47.0                  | 138  |
| EP074-UT: 1,1-Dichloroethene                                                 | 75-35-4    | 0.01 | mg/kg | <0.01                                 | 0.1 mg/kg                             | 90.4                      | 57.6                  | 125  |
| EP074-UT: Methylene chloride                                                 | 75-09-2    | 0.4  | mg/kg | <0.4                                  | 2.1 mg/kg                             | 97.7                      | 72.3                  | 115  |
| EP074-UT: trans-1,2-Dichloroethene                                           | 156-60-5   | 0.02 | mg/kg | <0.02                                 | 0.1 mg/kg                             | 93.8                      | 60.5                  | 122  |
| EP074-UT: cis-1,2-Dichloroethene                                             | 156-59-2   | 0.01 | mg/kg | <0.01                                 | 0.1 mg/kg                             | 90.4                      | 70.3                  | 112  |
| EP074-UT: Chloroform                                                         | 67-66-3    | 0.02 | mg/kg | <0.02                                 | 0.1 mg/kg                             | 93.0                      | 66.6                  | 115  |
| EP074-UT: 1,1,1-Trichloroethane                                              | 71-55-6    | 0.01 | mg/kg | <0.01                                 | 0.1 mg/kg                             | 88.8                      | 64.4                  | 122  |
| EP074-UT: Carbon Tetrachloride                                               | 56-23-5    | 0.01 | mg/kg | <0.01                                 | 0.1 mg/kg                             | 88.0                      | 58.4                  | 127  |
| EP074-UT: 1,2-Dichloroethane                                                 | 107-06-2   | 0.02 | mg/kg | <0.02                                 | 0.1 mg/kg                             | 96.2                      | 72.9                  | 114  |
| EP074-UT: Trichloroethene                                                    | 79-01-6    | 0.02 | mg/kg | <0.02                                 | 0.1 mg/kg                             | 88.8                      | 64.7                  | 115  |
| EP074-UT: 1,1,2-Trichloroethane                                              | 79-00-5    | 0.04 | mg/kg | <0.04                                 | 0.1 mg/kg                             | 98.8                      | 72.6                  | 116  |



Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                   |     |
| EP074I: Volatile Halogenated Compounds (QCLot: 4400434) - continued |            |      |       |                             |                                       |                           |                                   |     |
| EP074-UT: Tetrachloroethene                                         | 127-18-4   | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.1                      | 60.0                              | 119 |
| EP074-UT: 1.1.1.2-Tetrachloroethane                                 | 630-20-6   | 0.01 | mg/kg | <0.01                       | 0.1 mg/kg                             | 89.7                      | 71.8                              | 116 |
| EP074-UT: 1.1.2.2-Tetrachloroethane                                 | 79-34-5    | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 93.2                      | 66.1                              | 116 |
| EP074-UT: Hexachlorobutadiene                                       | 87-68-3    | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 87.8                      | 39.8                              | 128 |
| EP074-UT: Chlorobenzene                                             | 108-90-7   | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 91.2                      | 70.3                              | 113 |
| EP074-UT: 1.4-Dichlorobenzene                                       | 106-46-7   | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 83.8                      | 62.6                              | 113 |
| EP074-UT: 1.2-Dichlorobenzene                                       | 95-50-1    | 0.02 | mg/kg | <0.02                       | 0.1 mg/kg                             | 90.6                      | 70.8                              | 110 |
| EP074-UT: 1.2.4-Trichlorobenzene                                    | 120-82-1   | 0.01 | mg/kg | <0.01                       | 0.1 mg/kg                             | 83.9                      | 48.4                              | 120 |
| EP075(SIM)A: Phenolic Compounds (QCLot: 4400535)                    |            |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Phenol                                                  | 108-95-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.0                      | 81.2                              | 121 |
| EP075(SIM): 2-Chlorophenol                                          | 95-57-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.2                      | 83.2                              | 120 |
| EP075(SIM): 2-Methylphenol                                          | 95-48-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.7                      | 81.6                              | 123 |
| EP075(SIM): 3- & 4-Methylphenol                                     | 1319-77-3  | 1    | mg/kg | <1                          | 6 mg/kg                               | 97.4                      | 79.7                              | 129 |
| EP075(SIM): 2-Nitrophenol                                           | 88-75-5    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.2                      | 49.8                              | 129 |
| EP075(SIM): 2.4-Dimethylphenol                                      | 105-67-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.0                      | 81.5                              | 127 |
| EP075(SIM): 2.4-Dichlorophenol                                      | 120-83-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 101                       | 74.2                              | 125 |
| EP075(SIM): 2.6-Dichlorophenol                                      | 87-65-0    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 96.5                      | 79.8                              | 121 |
| EP075(SIM): 4-Chloro-3-methylphenol                                 | 59-50-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 82.8                      | 71.5                              | 121 |
| EP075(SIM): 2.4.6-Trichlorophenol                                   | 88-06-2    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 88.5                      | 67.8                              | 119 |
| EP075(SIM): 2.4.5-Trichlorophenol                                   | 95-95-4    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 84.1                      | 64.5                              | 126 |
| EP075(SIM): Pentachlorophenol                                       | 87-86-5    | 2    | mg/kg | <2                          | 6 mg/kg                               | 62.2                      | 10.0                              | 118 |
| EP075(SIM)A: Phenolic Compounds (QCLot: 4403571)                    |            |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Phenol                                                  | 108-95-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.1                      | 81.2                              | 121 |
| EP075(SIM): 2-Chlorophenol                                          | 95-57-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 89.5                      | 83.2                              | 120 |
| EP075(SIM): 2-Methylphenol                                          | 95-48-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 90.9                      | 81.6                              | 123 |
| EP075(SIM): 3- & 4-Methylphenol                                     | 1319-77-3  | 1    | mg/kg | <1                          | 6 mg/kg                               | 88.4                      | 79.7                              | 129 |
| EP075(SIM): 2-Nitrophenol                                           | 88-75-5    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 85.7                      | 49.8                              | 129 |
| EP075(SIM): 2.4-Dimethylphenol                                      | 105-67-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 89.6                      | 81.5                              | 127 |
| EP075(SIM): 2.4-Dichlorophenol                                      | 120-83-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 87.0                      | 74.2                              | 125 |
| EP075(SIM): 2.6-Dichlorophenol                                      | 87-65-0    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 88.3                      | 79.8                              | 121 |
| EP075(SIM): 4-Chloro-3-methylphenol                                 | 59-50-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 87.8                      | 71.5                              | 121 |
| EP075(SIM): 2.4.6-Trichlorophenol                                   | 88-06-2    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 81.4                      | 67.8                              | 119 |
| EP075(SIM): 2.4.5-Trichlorophenol                                   | 95-95-4    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 83.4                      | 64.5                              | 126 |
| EP075(SIM): Pentachlorophenol                                       | 87-86-5    | 2    | mg/kg | <2                          | 6 mg/kg                               | 73.8                      | 10.0                              | 118 |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4400535)     |            |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Naphthalene                                             | 91-20-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 98.8                      | 85.7                              | 123 |
| EP075(SIM): Acenaphthylene                                          | 208-96-8   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 93.3                      | 81.0                              | 123 |
| EP075(SIM): Acenaphthene                                            | 83-32-9    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.2                      | 83.6                              | 120 |



Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                   |     |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4400535) - continued |            |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Fluorene                                                        | 86-73-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.4                      | 81.3                              | 126 |
| EP075(SIM): Phenanthrene                                                    | 85-01-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 96.1                      | 79.4                              | 123 |
| EP075(SIM): Anthracene                                                      | 120-12-7   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 98.2                      | 81.7                              | 127 |
| EP075(SIM): Fluoranthene                                                    | 206-44-0   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 96.2                      | 78.3                              | 124 |
| EP075(SIM): Pyrene                                                          | 129-00-0   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 98.8                      | 79.9                              | 128 |
| EP075(SIM): Benz(a)anthracene                                               | 56-55-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.4                      | 76.9                              | 123 |
| EP075(SIM): Chrysene                                                        | 218-01-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 94.3                      | 80.9                              | 130 |
| EP075(SIM): Benzo(b+j)fluoranthene                                          | 205-99-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 88.2                      | 70.0                              | 121 |
|                                                                             | 205-82-3   |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Benzo(k)fluoranthene                                            | 207-08-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.7                      | 80.4                              | 130 |
| EP075(SIM): Benzo(a)pyrene                                                  | 50-32-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 85.0                      | 70.2                              | 123 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene                                          | 193-39-5   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 78.1                      | 67.9                              | 122 |
| EP075(SIM): Dibenz(a.h)anthracene                                           | 53-70-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 77.4                      | 65.8                              | 123 |
| EP075(SIM): Benzo(g.h.i)perylene                                            | 191-24-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 85.2                      | 65.8                              | 127 |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4403571)             |            |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Naphthalene                                                     | 91-20-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 93.8                      | 85.7                              | 123 |
| EP075(SIM): Acenaphthylene                                                  | 208-96-8   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 93.6                      | 81.0                              | 123 |
| EP075(SIM): Acenaphthene                                                    | 83-32-9    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 94.3                      | 83.6                              | 120 |
| EP075(SIM): Fluorene                                                        | 86-73-7    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 91.6                      | 81.3                              | 126 |
| EP075(SIM): Phenanthrene                                                    | 85-01-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 94.4                      | 79.4                              | 123 |
| EP075(SIM): Anthracene                                                      | 120-12-7   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 89.0                      | 81.7                              | 127 |
| EP075(SIM): Fluoranthene                                                    | 206-44-0   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 89.4                      | 78.3                              | 124 |
| EP075(SIM): Pyrene                                                          | 129-00-0   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 88.6                      | 79.9                              | 128 |
| EP075(SIM): Benz(a)anthracene                                               | 56-55-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 93.2                      | 76.9                              | 123 |
| EP075(SIM): Chrysene                                                        | 218-01-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 92.6                      | 80.9                              | 130 |
| EP075(SIM): Benzo(b+j)fluoranthene                                          | 205-99-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 95.2                      | 70.0                              | 121 |
|                                                                             | 205-82-3   |      |       |                             |                                       |                           |                                   |     |
| EP075(SIM): Benzo(k)fluoranthene                                            | 207-08-9   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 91.5                      | 80.4                              | 130 |
| EP075(SIM): Benzo(a)pyrene                                                  | 50-32-8    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 90.3                      | 70.2                              | 123 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene                                          | 193-39-5   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 85.2                      | 67.9                              | 122 |
| EP075(SIM): Dibenz(a.h)anthracene                                           | 53-70-3    | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 84.9                      | 65.8                              | 123 |
| EP075(SIM): Benzo(g.h.i)perylene                                            | 191-24-2   | 0.5  | mg/kg | <0.5                        | 3 mg/kg                               | 85.6                      | 65.8                              | 127 |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 4400516)                   |            |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: 2-Chlorophenol                                                    | 95-57-8    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 111                       | 74.5                              | 126 |
| EP075-EM: 2,4-Dichlorophenol                                                | 120-83-2   | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 102                       | 72.7                              | 126 |
| EP075-EM: 2,6-Dichlorophenol                                                | 87-65-0    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 104                       | 73.5                              | 132 |
| EP075-EM: 4-Chloro-3-methylphenol                                           | 59-50-7    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 102                       | 72.8                              | 128 |
| EP075-EM: 2,4,5-Trichlorophenol                                             | 95-95-4    | 0.05 | mg/kg | <0.05                       | 1 mg/kg                               | 100                       | 73.3                              | 134 |
| EP075-EM: 2,4,6-Trichlorophenol                                             | 88-06-2    | 0.05 | mg/kg | <0.05                       | 1 mg/kg                               | 103                       | 72.4                              | 128 |





Sub-Matrix: **SOIL**

| 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                      |                                       |                           |                                   |     |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 4400516) - continued |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: 2,3,5,6-Tetrachlorophenol                                   | 935-95-5              | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 98.4                      | 69.4                              | 126 |
| EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol                         | 4901-51-3/5<br>8-90-2 | 0.05 | mg/kg | <0.05                       | 2 mg/kg                               | 100                       | 71.9                              | 128 |
| EP075-EM: Pentachlorophenol                                           | 87-86-5               | 0.2  | mg/kg | <0.2                        | 2 mg/kg                               | 86.5                      | 54.4                              | 135 |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4400516)         |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: Phenol                                                      | 108-95-2              | 1    | mg/kg | <1                          | 1 mg/kg                               | 116                       | 71.5                              | 130 |
| EP075-EM: 2-Methylphenol                                              | 95-48-7               | 1    | mg/kg | <1                          | 1 mg/kg                               | 113                       | 73.4                              | 129 |
| EP075-EM: 3- & 4-Methylphenol                                         | 1319-77-3             | 1    | mg/kg | <1                          | 2 mg/kg                               | 108                       | 74.3                              | 129 |
| EP075-EM: 2-Nitrophenol                                               | 88-75-5               | 1    | mg/kg | <1                          | 1 mg/kg                               | 102                       | 70.9                              | 133 |
| EP075-EM: 2,4-Dimethylphenol                                          | 105-67-9              | 1    | mg/kg | <1                          | 1 mg/kg                               | 104                       | 71.8                              | 132 |
| EP075-EM: 2,4-Dinitrophenol                                           | 51-28-5               | 5    | mg/kg | <5                          | 10 mg/kg                              | 99.0                      | 41.0                              | 156 |
| EP075-EM: 4-Nitrophenol                                               | 100-02-7              | 5    | mg/kg | <5                          | 10 mg/kg                              | 108                       | 65.3                              | 134 |
| EP075-EM: 2-Methyl-4,6-dinitrophenol                                  | 8071-51-0             | 5    | mg/kg | <5                          | 10 mg/kg                              | 102                       | 43.6                              | 128 |
| EP075-EM: Dinoseb                                                     | 88-85-7               | 5    | mg/kg | <5                          | 10 mg/kg                              | 102                       | 62.0                              | 128 |
| EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol                              | 131-89-5              | 5    | mg/kg | <5                          | 10 mg/kg                              | 96.5                      | 34.5                              | 137 |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4400516)            |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: Naphthalene                                                 | 91-20-3               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 106                       | 73.0                              | 131 |
| EP075-EM: Acenaphthene                                                | 83-32-9               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 106                       | 76.3                              | 130 |
| EP075-EM: Acenaphthylene                                              | 208-96-8              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 103                       | 72.0                              | 135 |
| EP075-EM: Fluorene                                                    | 86-73-7               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 108                       | 74.4                              | 131 |
| EP075-EM: Phenanthrene                                                | 85-01-8               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 108                       | 73.3                              | 130 |
| EP075-EM: Anthracene                                                  | 120-12-7              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 107                       | 78.4                              | 127 |
| EP075-EM: Fluoranthene                                                | 206-44-0              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 105                       | 75.3                              | 132 |
| EP075-EM: Pyrene                                                      | 129-00-0              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 107                       | 75.4                              | 130 |
| EP075-EM: Benz(a)anthracene                                           | 56-55-3               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 109                       | 69.6                              | 133 |
| EP075-EM: Chrysene                                                    | 218-01-9              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 111                       | 75.0                              | 133 |
| EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene                           | 205-99-2<br>207-08-9  | 1    | mg/kg | <1.0                        | 2 mg/kg                               | 113                       | 75.8                              | 133 |
| EP075-EM: Benzo(a)pyrene                                              | 50-32-8               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 108                       | 65.1                              | 130 |
| EP075-EM: Indeno(1,2,3.cd)pyrene                                      | 193-39-5              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 108                       | 72.1                              | 134 |
| EP075-EM: Dibenz(a,h)anthracene                                       | 53-70-3               | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 107                       | 72.9                              | 135 |
| EP075-EM: Benzo(g,h,i)perylene                                        | 191-24-2              | 0.5  | mg/kg | <0.5                        | 1 mg/kg                               | 106                       | 71.3                              | 134 |
| EP075I: Organochlorine Pesticides (QCLot: 4400516)                    |                       |      |       |                             |                                       |                           |                                   |     |
| EP075-EM: alpha-BHC                                                   | 319-84-6              | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 108                       | 71.0                              | 129 |
| EP075-EM: Hexachlorobenzene (HCB)                                     | 118-74-1              | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 104                       | 74.8                              | 126 |
| EP075-EM: beta-BHC                                                    | 319-85-7              | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 107                       | 75.7                              | 130 |
| EP075-EM: gamma-BHC                                                   | 58-89-9               | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 108                       | 70.8                              | 130 |
| EP075-EM: delta-BHC                                                   | 319-86-8              | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 110                       | 76.5                              | 134 |



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>EP075I: Organochlorine Pesticides (QCLot: 4400516) - continued</b>                   |            |      |       |                             |                                       |                           |                       |      |
| EP075-EM: Heptachlor                                                                    | 76-44-8    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 102                       | 75.5                  | 131  |
| EP075-EM: Aldrin                                                                        | 309-00-2   | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 106                       | 76.8                  | 130  |
| EP075-EM: Heptachlor epoxide                                                            | 1024-57-3  | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 105                       | 73.6                  | 130  |
| EP075-EM: cis-Chlordane                                                                 | 5103-71-9  | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 101                       | 75.0                  | 133  |
| EP075-EM: trans-Chlordane                                                               | 5103-74-2  | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 102                       | 75.3                  | 131  |
| EP075-EM: Endosulfan 1                                                                  | 959-98-8   | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 107                       | 69.4                  | 134  |
| EP075-EM: 4,4'-DDE                                                                      | 72-55-9    | 0.05 | mg/kg | <0.05                       | 1 mg/kg                               | 107                       | 71.0                  | 132  |
| EP075-EM: Dieldrin                                                                      | 60-57-1    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 108                       | 78.0                  | 133  |
| EP075-EM: Endrin aldehyde                                                               | 7421-93-4  | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 82.8                      | 69.0                  | 143  |
| EP075-EM: Endrin                                                                        | 72-20-8    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 116                       | 55.7                  | 145  |
| EP075-EM: Endosulfan 2                                                                  | 33213-65-9 | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 109                       | 71.4                  | 135  |
| EP075-EM: 4,4'-DDD                                                                      | 72-54-8    | 0.05 | mg/kg | <0.05                       | 1 mg/kg                               | 108                       | 74.8                  | 134  |
| EP075-EM: Endosulfan sulfate                                                            | 1031-07-8  | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 110                       | 70.2                  | 135  |
| EP075-EM: 4,4'-DDT                                                                      | 50-29-3    | 0.05 | mg/kg | <0.05                       | 1 mg/kg                               | 101                       | 77.7                  | 133  |
| EP075-EM: Methoxychlor                                                                  | 72-43-5    | 0.03 | mg/kg | <0.03                       | 1 mg/kg                               | 108                       | 63.6                  | 135  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400434)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP074-UT: C6 - C9 Fraction                                                              | ----       | 10   | mg/kg | <10                         | 39.6 mg/kg                            | 97.1                      | 61.1                  | 119  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400437)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP080: C6 - C9 Fraction                                                                 | ----       | 10   | mg/kg | <10                         | 36 mg/kg                              | 71.3                      | 58.6                  | 131  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400517)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP071-EM: C10 - C14 Fraction                                                            | ----       | 50   | mg/kg | <50                         | 670 mg/kg                             | 98.1                      | 74.4                  | 129  |
| EP071-EM: C15 - C28 Fraction                                                            | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 96.5                      | 81.0                  | 123  |
| EP071-EM: C29 - C36 Fraction                                                            | ----       | 100  | mg/kg | <100                        | 1490 mg/kg                            | 87.6                      | 81.8                  | 121  |
| EP071-EM: C10 - C36 Fraction (sum)                                                      | ----       | 50   | mg/kg | <50                         | 5020 mg/kg                            | 94.0                      | 70.0                  | 130  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400533)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP071: C10 - C14 Fraction                                                               | ----       | 50   | mg/kg | <50                         | 670 mg/kg                             | 103                       | 75.0                  | 128  |
| EP071: C15 - C28 Fraction                                                               | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 100                       | 82.0                  | 123  |
| EP071: C29 - C36 Fraction                                                               | ----       | 100  | mg/kg | <100                        | 1490 mg/kg                            | 91.4                      | 82.4                  | 121  |
| EP071: C10 - C36 Fraction (sum)                                                         | ----       | 50   | mg/kg | <50                         | 5020 mg/kg                            | 98.0                      | 70.0                  | 130  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4403549)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP080: C6 - C9 Fraction                                                                 | ----       | 10   | mg/kg | <10                         | 36 mg/kg                              | 93.4                      | 58.6                  | 131  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4403572)</b>                         |            |      |       |                             |                                       |                           |                       |      |
| EP071: C10 - C14 Fraction                                                               | ----       | 50   | mg/kg | <50                         | 670 mg/kg                             | 77.4                      | 75.0                  | 128  |
| EP071: C15 - C28 Fraction                                                               | ----       | 100  | mg/kg | <100                        | 2860 mg/kg                            | 92.3                      | 82.0                  | 123  |
| EP071: C29 - C36 Fraction                                                               | ----       | 100  | mg/kg | <100                        | 1490 mg/kg                            | 85.8                      | 82.4                  | 121  |
| EP071: C10 - C36 Fraction (sum)                                                         | ----       | 50   | mg/kg | <50                         | 5020 mg/kg                            | 88.4                      | 70.0                  | 130  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400434)</b> |            |      |       |                             |                                       |                           |                       |      |
| EP074-UT: C6 - C10 Fraction                                                             | C6_C10     | 10   | mg/kg | <10                         | 48.9 mg/kg                            | 97.7                      | 59.9                  | 119  |

| Sub-Matrix: SOIL                                                                             |             |     |       | Method Blank (MB)<br>Report | Laboratory Control Spike (LCS) Report |                    |                       |      |
|----------------------------------------------------------------------------------------------|-------------|-----|-------|-----------------------------|---------------------------------------|--------------------|-----------------------|------|
|                                                                                              |             |     |       |                             | Spike<br>Concentration                | Spike Recovery (%) | Acceptable Limits (%) |      |
| Method: Compound                                                                             | CAS Number  | LOR | Unit  | Result                      |                                       | LCS                | Low                   | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400434) - continued |             |     |       |                             |                                       |                    |                       |      |
| EP074-UT: C6 - C10 Fraction minus BTEX (F1)                                                  | C6_C10-BTEX | 10  | mg/kg | <10                         | ----                                  | ----               | ----                  | ---- |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400437)             |             |     |       |                             |                                       |                    |                       |      |
| EP080: C6 - C10 Fraction                                                                     | C6_C10      | 10  | mg/kg | <10                         | 45 mg/kg                              | 76.1               | 59.3                  | 128  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400517)             |             |     |       |                             |                                       |                    |                       |      |
| EP071-EM: >C10 - C16 Fraction                                                                | ----        | 50  | mg/kg | <50                         | 1000 mg/kg                            | 92.9               | 75.4                  | 132  |
| EP071-EM: >C16 - C34 Fraction                                                                | ----        | 100 | mg/kg | <100                        | 3770 mg/kg                            | 97.0               | 80.8                  | 120  |
| EP071-EM: >C34 - C40 Fraction                                                                | ----        | 100 | mg/kg | <100                        | 250 mg/kg                             | 96.5               | 73.3                  | 136  |
| EP071-EM: >C10 - C40 Fraction (sum)                                                          | ----        | 50  | mg/kg | <50                         | 5020 mg/kg                            | 96.2               | 70.0                  | 130  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400533)             |             |     |       |                             |                                       |                    |                       |      |
| EP071: >C10 - C16 Fraction                                                                   | ----        | 50  | mg/kg | <50                         | 1000 mg/kg                            | 102                | 77.0                  | 130  |
| EP071: >C16 - C34 Fraction                                                                   | ----        | 100 | mg/kg | <100                        | 3770 mg/kg                            | 103                | 81.5                  | 120  |
| EP071: >C34 - C40 Fraction                                                                   | ----        | 100 | mg/kg | <100                        | 250 mg/kg                             | 99.6               | 73.3                  | 137  |
| EP071: >C10 - C40 Fraction (sum)                                                             | ----        | 50  | mg/kg | <50                         | 5020 mg/kg                            | 102                | 70.0                  | 130  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4403549)             |             |     |       |                             |                                       |                    |                       |      |
| EP080: C6 - C10 Fraction                                                                     | C6_C10      | 10  | mg/kg | <10                         | 45 mg/kg                              | 91.3               | 59.3                  | 128  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4403572)             |             |     |       |                             |                                       |                    |                       |      |
| EP071: >C10 - C16 Fraction                                                                   | ----        | 50  | mg/kg | <50                         | 1000 mg/kg                            | 83.6               | 77.0                  | 130  |
| EP071: >C16 - C34 Fraction                                                                   | ----        | 100 | mg/kg | <100                        | 3770 mg/kg                            | 93.3               | 81.5                  | 120  |
| EP071: >C34 - C40 Fraction                                                                   | ----        | 100 | mg/kg | <100                        | 250 mg/kg                             | 74.8               | 73.3                  | 137  |
| EP071: >C10 - C40 Fraction (sum)                                                             | ----        | 50  | mg/kg | <50                         | 5020 mg/kg                            | 90.6               | 70.0                  | 130  |
| EP080: BTEXN (QCLot: 4400437)                                                                |             |     |       |                             |                                       |                    |                       |      |
| EP080: Benzene                                                                               | 71-43-2     | 0.2 | mg/kg | <0.2                        | 2 mg/kg                               | 83.6               | 61.6                  | 117  |
| EP080: Toluene                                                                               | 108-88-3    | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 90.3               | 65.8                  | 125  |
| EP080: Ethylbenzene                                                                          | 100-41-4    | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 90.3               | 65.8                  | 124  |
| EP080: meta- & para-Xylene                                                                   | 108-38-3    | 0.5 | mg/kg | <0.5                        | 4 mg/kg                               | 93.9               | 64.8                  | 134  |
|                                                                                              | 106-42-3    |     |       |                             |                                       |                    |                       |      |
| EP080: ortho-Xylene                                                                          | 95-47-6     | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 95.2               | 68.7                  | 132  |
| EP080: Naphthalene                                                                           | 91-20-3     | 1   | mg/kg | <1                          | 0.5 mg/kg                             | 91.8               | 61.8                  | 123  |
| EP080: BTEXN (QCLot: 4403549)                                                                |             |     |       |                             |                                       |                    |                       |      |
| EP080: Benzene                                                                               | 71-43-2     | 0.2 | mg/kg | <0.2                        | 2 mg/kg                               | 100                | 61.6                  | 117  |
| EP080: Toluene                                                                               | 108-88-3    | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 93.6               | 65.8                  | 125  |
| EP080: Ethylbenzene                                                                          | 100-41-4    | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 90.2               | 65.8                  | 124  |
| EP080: meta- & para-Xylene                                                                   | 108-38-3    | 0.5 | mg/kg | <0.5                        | 4 mg/kg                               | 88.2               | 64.8                  | 134  |
|                                                                                              | 106-42-3    |     |       |                             |                                       |                    |                       |      |
| EP080: ortho-Xylene                                                                          | 95-47-6     | 0.5 | mg/kg | <0.5                        | 2 mg/kg                               | 92.4               | 68.7                  | 132  |
| EP080: Naphthalene                                                                           | 91-20-3     | 1   | mg/kg | <1                          | 0.5 mg/kg                             | 102                | 61.8                  | 123  |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 4404347)                               |             |     |       |                             |                                       |                    |                       |      |





Sub-Matrix: **SOIL**

|                                                                            |            |      |       | Report | Spike         | Spike Recovery (%) | Acceptable Limits (%) |      |
|----------------------------------------------------------------------------|------------|------|-------|--------|---------------|--------------------|-----------------------|------|
| Method: Compound                                                           | CAS Number | LOR  | Unit  | Result | Concentration | LCS                | Low                   | High |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 4404347) - continued |            |      |       |        |               |                    |                       |      |
| EP202: 4-Chlorophenoxy acetic acid                                         | 122-88-3   | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 64.3               | 54.4                  | 128  |
| EP202: 2,4-DB                                                              | 94-82-6    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 70.3               | 45.5                  | 130  |
| EP202: Dicamba                                                             | 1918-00-9  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 61.9               | 51.7                  | 135  |
| EP202: Mecoprop                                                            | 93-65-2    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 64.2               | 60.0                  | 130  |
| EP202: MCPA                                                                | 94-74-6    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 64.5               | 56.8                  | 131  |
| EP202: 2,4-DP                                                              | 120-36-5   | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 60.1               | 50.0                  | 141  |
| EP202: 2,4-D                                                               | 94-75-7    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 72.6               | 68.5                  | 131  |
| EP202: Triclopyr                                                           | 55335-06-3 | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 67.4               | 50.8                  | 141  |
| EP202: 2,4,5-TP (Silvex)                                                   | 93-72-1    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 63.0               | 40.8                  | 126  |
| EP202: 2,4,5-T                                                             | 93-76-5    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 69.0               | 57.4                  | 139  |
| EP202: MCPB                                                                | 94-81-5    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 56.7               | 38.9                  | 137  |
| EP202: Picloram                                                            | 1918-02-1  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 63.1               | 48.7                  | 129  |
| EP202: Clopyralid                                                          | 1702-17-6  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 63.0               | 49.4                  | 106  |
| EP202: Fluroxypyr                                                          | 69377-81-7 | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 66.7               | 53.2                  | 128  |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 4414289)             |            |      |       |        |               |                    |                       |      |
| EP202: 4-Chlorophenoxy acetic acid                                         | 122-88-3   | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 76.7               | 54.4                  | 128  |
| EP202: 2,4-DB                                                              | 94-82-6    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 69.1               | 45.5                  | 130  |
| EP202: Dicamba                                                             | 1918-00-9  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 78.5               | 51.7                  | 135  |
| EP202: Mecoprop                                                            | 93-65-2    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 73.4               | 60.0                  | 130  |
| EP202: MCPA                                                                | 94-74-6    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 74.8               | 56.8                  | 131  |
| EP202: 2,4-DP                                                              | 120-36-5   | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 79.2               | 50.0                  | 141  |
| EP202: 2,4-D                                                               | 94-75-7    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 86.1               | 68.5                  | 131  |
| EP202: Triclopyr                                                           | 55335-06-3 | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 81.0               | 50.8                  | 141  |
| EP202: 2,4,5-TP (Silvex)                                                   | 93-72-1    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 78.1               | 40.8                  | 126  |
| EP202: 2,4,5-T                                                             | 93-76-5    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 81.8               | 57.4                  | 139  |
| EP202: MCPB                                                                | 94-81-5    | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 78.3               | 38.9                  | 137  |
| EP202: Picloram                                                            | 1918-02-1  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 62.4               | 48.7                  | 129  |
| EP202: Clopyralid                                                          | 1702-17-6  | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 68.7               | 49.4                  | 106  |
| EP202: Fluroxypyr                                                          | 69377-81-7 | 0.02 | mg/kg | <0.02  | 0.1 mg/kg     | 80.4               | 53.2                  | 128  |

Sub-Matrix: **WATER**

|                                                 |            |        |      | Report  | Spike         | Spike Recovery (%) | Acceptable Limits (%) |      |
|-------------------------------------------------|------------|--------|------|---------|---------------|--------------------|-----------------------|------|
| Method: Compound                                | CAS Number | LOR    | Unit | Result  | Concentration | LCS                | Low                   | High |
| EG020T: Total Metals by ICP-MS (QCLot: 4396945) |            |        |      |         |               |                    |                       |      |
| EG020A-T: Arsenic                               | 7440-38-2  | 0.001  | mg/L | <0.001  | 0.1 mg/L      | 104                | 89.2                  | 115  |
| EG020A-T: Beryllium                             | 7440-41-7  | 0.001  | mg/L | <0.001  | 0.1 mg/L      | 103                | 86.0                  | 115  |
| EG020A-T: Barium                                | 7440-39-3  | 0.001  | mg/L | <0.001  | 0.1 mg/L      | 103                | 87.2                  | 117  |
| EG020A-T: Cadmium                               | 7440-43-9  | 0.0001 | mg/L | <0.0001 | 0.1 mg/L      | 96.1               | 86.4                  | 115  |
| EG020A-T: Chromium                              | 7440-47-3  | 0.001  | mg/L | <0.001  | 0.1 mg/L      | 104                | 86.9                  | 112  |



Sub-Matrix: **WATER**

|                                                                                         |                      |        |      | 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>EG020T: Total Metals by ICP-MS (QCLot: 4396945) - continued</b>                      |                      |        |      |                             |                                       |                           |                       |      |
| EG020A-T: Cobalt                                                                        | 7440-48-4            | 0.001  | mg/L | <0.001                      | 0.1 mg/L                              | 102                       | 87.7                  | 113  |
| EG020A-T: Copper                                                                        | 7440-50-8            | 0.001  | mg/L | <0.001                      | 0.1 mg/L                              | 100                       | 86.9                  | 111  |
| EG020A-T: Lead                                                                          | 7439-92-1            | 0.001  | mg/L | <0.001                      | 0.1 mg/L                              | 102                       | 88.3                  | 112  |
| EG020A-T: Manganese                                                                     | 7439-96-5            | 0.001  | mg/L | <0.001                      | 0.1 mg/L                              | 104                       | 88.7                  | 113  |
| EG020A-T: Nickel                                                                        | 7440-02-0            | 0.001  | mg/L | <0.001                      | 0.1 mg/L                              | 101                       | 87.9                  | 113  |
| EG020A-T: Selenium                                                                      | 7782-49-2            | 0.01   | mg/L | <0.01                       | 0.1 mg/L                              | 101                       | 84.8                  | 116  |
| EG020A-T: Vanadium                                                                      | 7440-62-2            | 0.01   | mg/L | <0.01                       | 0.1 mg/L                              | 106                       | 87.1                  | 114  |
| EG020A-T: Zinc                                                                          | 7440-66-6            | 0.005  | mg/L | <0.005                      | 0.1 mg/L                              | 106                       | 86.7                  | 117  |
| EG020A-T: Boron                                                                         | 7440-42-8            | 0.05   | mg/L | <0.05                       | 0.5 mg/L                              | 111                       | 89.3                  | 118  |
| <b>EG035T: Total Recoverable Mercury by FIMS (QCLot: 4398048)</b>                       |                      |        |      |                             |                                       |                           |                       |      |
| EG035T: Mercury                                                                         | 7439-97-6            | 0.0001 | mg/L | <0.0001                     | 0.01 mg/L                             | 113                       | 73.4                  | 119  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4394056)</b>                         |                      |        |      |                             |                                       |                           |                       |      |
| EP080: C6 - C9 Fraction                                                                 | ----                 | 20     | µg/L | <20                         | 360 µg/L                              | 94.6                      | 66.2                  | 134  |
| <b>EP080/071: Total Petroleum Hydrocarbons (QCLot: 4396484)</b>                         |                      |        |      |                             |                                       |                           |                       |      |
| EP071: C10 - C14 Fraction                                                               | ----                 | 50     | µg/L | <50                         | 4000 µg/L                             | 76.2                      | 47.2                  | 122  |
| EP071: C15 - C28 Fraction                                                               | ----                 | 100    | µg/L | <100                        | 16900 µg/L                            | 87.2                      | 52.9                  | 131  |
| EP071: C29 - C36 Fraction                                                               | ----                 | 50     | µg/L | <50                         | 8090 µg/L                             | 90.8                      | 50.4                  | 127  |
| EP071: C10 - C36 Fraction (sum)                                                         | ----                 | 50     | µg/L | <50                         | 28990 µg/L                            | 86.5                      | 51.5                  | 128  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4394056)</b> |                      |        |      |                             |                                       |                           |                       |      |
| EP080: C6 - C10 Fraction                                                                | C6_C10               | 20     | µg/L | <20                         | 450 µg/L                              | 94.9                      | 66.2                  | 132  |
| <b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4396484)</b> |                      |        |      |                             |                                       |                           |                       |      |
| EP071: >C10 - C16 Fraction                                                              | ----                 | 100    | µg/L | <100                        | 5830 µg/L                             | 84.8                      | 49.1                  | 125  |
| EP071: >C16 - C34 Fraction                                                              | ----                 | 100    | µg/L | <100                        | 21700 µg/L                            | 92.8                      | 51.6                  | 128  |
| EP071: >C34 - C40 Fraction                                                              | ----                 | 100    | µg/L | <100                        | 1560 µg/L                             | 81.1                      | 47.2                  | 130  |
| EP071: >C10 - C40 Fraction (sum)                                                        | ----                 | 100    | µg/L | <100                        | 29090 µg/L                            | 90.4                      | 51.2                  | 127  |
| <b>EP080: BTEXN (QCLot: 4394056)</b>                                                    |                      |        |      |                             |                                       |                           |                       |      |
| EP080: Benzene                                                                          | 71-43-2              | 1      | µg/L | <1                          | 20 µg/L                               | 97.7                      | 68.8                  | 127  |
| EP080: Toluene                                                                          | 108-88-3             | 2      | µg/L | <2                          | 20 µg/L                               | 106                       | 72.9                  | 129  |
| EP080: Ethylbenzene                                                                     | 100-41-4             | 2      | µg/L | <2                          | 20 µg/L                               | 103                       | 71.7                  | 130  |
| EP080: meta- & para-Xylene                                                              | 108-38-3<br>106-42-3 | 2      | µg/L | <2                          | 40 µg/L                               | 99.6                      | 72.3                  | 136  |
| EP080: ortho-Xylene                                                                     | 95-47-6              | 2      | µg/L | <2                          | 20 µg/L                               | 103                       | 75.9                  | 134  |
| EP080: Naphthalene                                                                      | 91-20-3              | 5      | µg/L | <5                          | 5 µg/L                                | 105                       | 68.3                  | 131  |

### 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: 4400651)                       |            |                                           |            |                          |                  |                       |      |
| EM2211035-002                                                                 | Anonymous  | EG005T: Arsenic                           | 7440-38-2  | 50 mg/kg                 | 96.8             | 78.0                  | 124  |
|                                                                               |            | EG005T: Cadmium                           | 7440-43-9  | 50 mg/kg                 | 97.6             | 79.7                  | 116  |
|                                                                               |            | EG005T: Chromium                          | 7440-47-3  | 50 mg/kg                 | 104              | 79.0                  | 121  |
|                                                                               |            | EG005T: Copper                            | 7440-50-8  | 250 mg/kg                | 101              | 80.0                  | 120  |
|                                                                               |            | EG005T: Lead                              | 7439-92-1  | 250 mg/kg                | 96.9             | 80.0                  | 120  |
|                                                                               |            | EG005T: Nickel                            | 7440-02-0  | 50 mg/kg                 | 107              | 78.0                  | 120  |
|                                                                               |            | EG005T: Zinc                              | 7440-66-6  | 250 mg/kg                | 93.9             | 80.0                  | 120  |
| EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4400652)                       |            |                                           |            |                          |                  |                       |      |
| EM2211061-016                                                                 | BH06 - 0.1 | EG005T: Arsenic                           | 7440-38-2  | 50 mg/kg                 | 99.2             | 78.0                  | 124  |
|                                                                               |            | EG005T: Cadmium                           | 7440-43-9  | 50 mg/kg                 | 92.7             | 79.7                  | 116  |
|                                                                               |            | EG005T: Chromium                          | 7440-47-3  | 50 mg/kg                 | 91.3             | 79.0                  | 121  |
|                                                                               |            | EG005T: Copper                            | 7440-50-8  | 250 mg/kg                | 99.9             | 80.0                  | 120  |
|                                                                               |            | EG005T: Lead                              | 7439-92-1  | 250 mg/kg                | 95.3             | 80.0                  | 120  |
|                                                                               |            | EG005T: Nickel                            | 7440-02-0  | 50 mg/kg                 | 101              | 78.0                  | 120  |
|                                                                               |            | EG005T: Zinc                              | 7440-66-6  | 250 mg/kg                | 104              | 80.0                  | 120  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 4400650)                    |            |                                           |            |                          |                  |                       |      |
| EM2211035-002                                                                 | Anonymous  | EG035T: Mercury                           | 7439-97-6  | 0.5 mg/kg                | 102              | 76.0                  | 116  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 4400653)                    |            |                                           |            |                          |                  |                       |      |
| EM2211061-016                                                                 | BH06 - 0.1 | EG035T: Mercury                           | 7439-97-6  | 0.5 mg/kg                | 96.4             | 76.0                  | 116  |
| EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4400826)                 |            |                                           |            |                          |                  |                       |      |
| EM2210946-002                                                                 | Anonymous  | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 65.6             | 58.0                  | 114  |
| EM2210946-002                                                                 | Anonymous  | EG048G: Hexavalent Chromium               | 18540-29-9 | 20 mg/kg                 | 75.8             | 58.0                  | 114  |
| EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4403123)                 |            |                                           |            |                          |                  |                       |      |
| EM2210714-001                                                                 | Anonymous  | EK026SF: Total Cyanide                    | 57-12-5    | 20 mg/kg                 | 87.5             | 70.0                  | 130  |
| EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 4403126) |            |                                           |            |                          |                  |                       |      |
| EM2211061-019                                                                 | BH07 - 0.1 | EK028SF: Weak Acid Dissociable Cyanide    | ----       | 20 mg/kg                 | 100              | 70.0                  | 130  |
| EK040T: Fluoride Total (QCLot: 4400820)                                       |            |                                           |            |                          |                  |                       |      |
| EM2211035-001                                                                 | Anonymous  | EK040T: Fluoride                          | 16984-48-8 | 400 mg/kg                | 112              | 70.0                  | 130  |
| EP004: Organic Matter (QCLot: 4405872)                                        |            |                                           |            |                          |                  |                       |      |
| EM2210942-003                                                                 | Anonymous  | EP004: Organic Matter                     | ----       | 1.79 %                   | 82.7             | 70.0                  | 120  |
|                                                                               |            | EP004: Total Organic Carbon               | ----       | 1.04 %                   | 82.6             | 70.0                  | 120  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4400518)                       |            |                                           |            |                          |                  |                       |      |
| EM2211058-008                                                                 | Anonymous  | EP066-EM: Total Polychlorinated biphenyls | ----       | 1 mg/kg                  | 107              | 59.6                  | 152  |
| EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4400532)                       |            |                                           |            |                          |                  |                       |      |
| EM2211061-019                                                                 | BH07 - 0.1 | EP066: Total Polychlorinated biphenyls    | ----       | 1 mg/kg                  | 81.4             | 63.2                  | 144  |



Sub-Matrix: **SOIL**

| 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: 4400531)         |            |                                     |            |                          |                  |                       |      |
| EM2211061-019                                                   | BH07 - 0.1 | EP068: gamma-BHC                    | 58-89-9    | 0.5 mg/kg                | 81.2             | 51.4                  | 139  |
|                                                                 |            | EP068: Heptachlor                   | 76-44-8    | 0.5 mg/kg                | 67.8             | 49.1                  | 130  |
|                                                                 |            | EP068: Aldrin                       | 309-00-2   | 0.5 mg/kg                | 81.0             | 38.4                  | 135  |
|                                                                 |            | EP068: Dieldrin                     | 60-57-1    | 0.5 mg/kg                | 83.0             | 58.4                  | 136  |
|                                                                 |            | EP068: Endrin                       | 72-20-8    | 0.5 mg/kg                | 75.1             | 33.0                  | 146  |
|                                                                 |            | EP068: 4.4`-DDT                     | 50-29-3    | 0.5 mg/kg                | 81.2             | 20.0                  | 133  |
| EP068B: Organophosphorus Pesticides (OP) (QCLot: 4400531)       |            |                                     |            |                          |                  |                       |      |
| EM2211061-019                                                   | BH07 - 0.1 | EP068: Diazinon                     | 333-41-5   | 0.5 mg/kg                | 92.5             | 65.1                  | 135  |
|                                                                 |            | EP068: Chlorpyrifos-methyl          | 5598-13-0  | 0.5 mg/kg                | 78.8             | 56.3                  | 127  |
|                                                                 |            | EP068: Pirimphos-ethyl              | 23505-41-1 | 0.5 mg/kg                | 75.5             | 55.0                  | 133  |
|                                                                 |            | EP068: Bromophos-ethyl              | 4824-78-6  | 0.5 mg/kg                | 75.1             | 55.1                  | 133  |
|                                                                 |            | EP068: Prothiofos                   | 34643-46-4 | 0.5 mg/kg                | 68.3             | 43.8                  | 128  |
| EP069: Toxaphene (QCLot: 4400534)                               |            |                                     |            |                          |                  |                       |      |
| EM2211061-033                                                   | BH09 - 0.1 | EP069: Toxaphene                    | 8001-35-2  | 10 mg/kg                 | 128              | 54.2                  | 138  |
| EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4400434)       |            |                                     |            |                          |                  |                       |      |
| EM2211035-001                                                   | Anonymous  | EP074-UT: Benzene                   | 71-43-2    | 2 mg/kg                  | 88.2             | 53.7                  | 130  |
|                                                                 |            | EP074-UT: Toluene                   | 108-88-3   | 2 mg/kg                  | 91.6             | 55.1                  | 124  |
| EP074I: Volatile Halogenated Compounds (QCLot: 4400434)         |            |                                     |            |                          |                  |                       |      |
| EM2211035-001                                                   | Anonymous  | EP074-UT: 1.1-Dichloroethene        | 75-35-4    | 2 mg/kg                  | 83.3             | 38.4                  | 145  |
|                                                                 |            | EP074-UT: Trichloroethene           | 79-01-6    | 2 mg/kg                  | 78.7             | 48.1                  | 128  |
|                                                                 |            | EP074-UT: Chlorobenzene             | 108-90-7   | 2 mg/kg                  | 81.3             | 55.5                  | 122  |
| EP075(SIM)A: Phenolic Compounds (QCLot: 4400535)                |            |                                     |            |                          |                  |                       |      |
| EM2211061-004                                                   | BH02 - 0.1 | EP075(SIM): Phenol                  | 108-95-2   | 1.5 mg/kg                | 100.0            | 77.1                  | 119  |
|                                                                 |            | EP075(SIM): 2-Chlorophenol          | 95-57-8    | 1.5 mg/kg                | 104              | 78.9                  | 123  |
|                                                                 |            | EP075(SIM): 2-Nitrophenol           | 88-75-5    | 1.5 mg/kg                | 96.0             | 43.8                  | 136  |
|                                                                 |            | EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7    | 1.5 mg/kg                | 85.4             | 61.5                  | 120  |
|                                                                 |            | EP075(SIM): Pentachlorophenol       | 87-86-5    | 1.5 mg/kg                | 53.7             | 15.3                  | 139  |
| EP075(SIM)A: Phenolic Compounds (QCLot: 4403571)                |            |                                     |            |                          |                  |                       |      |
| EM2211061-031                                                   | BH09 - 0.5 | EP075(SIM): Phenol                  | 108-95-2   | 3 mg/kg                  | 95.1             | 77.1                  | 119  |
|                                                                 |            | EP075(SIM): 2-Chlorophenol          | 95-57-8    | 3 mg/kg                  | 92.3             | 78.9                  | 123  |
|                                                                 |            | EP075(SIM): 2-Nitrophenol           | 88-75-5    | 3 mg/kg                  | 86.2             | 43.8                  | 136  |
|                                                                 |            | EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7    | 3 mg/kg                  | 89.7             | 61.5                  | 120  |
|                                                                 |            | EP075(SIM): Pentachlorophenol       | 87-86-5    | 3 mg/kg                  | 58.0             | 15.3                  | 139  |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4400535) |            |                                     |            |                          |                  |                       |      |
| EM2211061-004                                                   | BH02 - 0.1 | EP075(SIM): Acenaphthene            | 83-32-9    | 1.5 mg/kg                | 99.6             | 77.2                  | 116  |
|                                                                 |            | EP075(SIM): Pyrene                  | 129-00-0   | 1.5 mg/kg                | 105              | 65.5                  | 136  |



| Sub-Matrix: SOIL                                                                 |            |                                    |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|------------|------------------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |            |                                    |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID  | Method: Compound                   | CAS Number | Concentration            | MS               | Low                   | High |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4403571)                  |            |                                    |            |                          |                  |                       |      |
| EM2211061-031                                                                    | BH09 - 0.5 | EP075(SIM): Acenaphthene           | 83-32-9    | 3 mg/kg                  | 91.6             | 77.2                  | 116  |
|                                                                                  |            | EP075(SIM): Pyrene                 | 129-00-0   | 3 mg/kg                  | 91.6             | 65.5                  | 136  |
| EP075A: Phenolic Compounds (Halogenated) (QCLot: 4400516)                        |            |                                    |            |                          |                  |                       |      |
| EM2211035-012                                                                    | Anonymous  | EP075-EM: 2-Chlorophenol           | 95-57-8    | 1.5 mg/kg                | 102              | 44.0                  | 143  |
|                                                                                  |            | EP075-EM: 4-Chloro-3-methylphenol  | 59-50-7    | 1.5 mg/kg                | 97.9             | 41.5                  | 139  |
|                                                                                  |            | EP075-EM: Pentachlorophenol        | 87-86-5    | 1.5 mg/kg                | 84.9             | 10.0                  | 144  |
| EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4400516)                    |            |                                    |            |                          |                  |                       |      |
| EM2211035-012                                                                    | Anonymous  | EP075-EM: Phenol                   | 108-95-2   | 1.5 mg/kg                | 110              | 44.2                  | 134  |
|                                                                                  |            | EP075-EM: 2-Nitrophenol            | 88-75-5    | 1.5 mg/kg                | 97.2             | 34.2                  | 129  |
| EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4400516)                       |            |                                    |            |                          |                  |                       |      |
| EM2211035-012                                                                    | Anonymous  | EP075-EM: Acenaphthene             | 83-32-9    | 1.5 mg/kg                | 94.6             | 42.6                  | 138  |
|                                                                                  |            | EP075-EM: Pyrene                   | 129-00-0   | 1.5 mg/kg                | # Not Determined | 37.8                  | 152  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400434)                         |            |                                    |            |                          |                  |                       |      |
| EM2211035-001                                                                    | Anonymous  | EP074-UT: C6 - C9 Fraction         | ----       | 28 mg/kg                 | 88.4             | 42.3                  | 111  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400437)                         |            |                                    |            |                          |                  |                       |      |
| EM2211061-004                                                                    | BH02 - 0.1 | EP080: C6 - C9 Fraction            | ----       | 28 mg/kg                 | 69.7             | 33.4                  | 124  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400517)                         |            |                                    |            |                          |                  |                       |      |
| EM2211058-006                                                                    | Anonymous  | EP071-EM: C10 - C14 Fraction       | ----       | 670 mg/kg                | 104              | 71.3                  | 126  |
|                                                                                  |            | EP071-EM: C15 - C28 Fraction       | ----       | 2860 mg/kg               | 100              | 75.1                  | 123  |
|                                                                                  |            | EP071-EM: C29 - C36 Fraction       | ----       | 1490 mg/kg               | 91.9             | 78.1                  | 120  |
|                                                                                  |            | EP071-EM: C10 - C36 Fraction (sum) | ----       | 5020 mg/kg               | 98.7             | 70.0                  | 130  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4400533)                         |            |                                    |            |                          |                  |                       |      |
| EM2211061-007                                                                    | BH03 - 0.1 | EP071: C10 - C14 Fraction          | ----       | 670 mg/kg                | 111              | 71.2                  | 125  |
|                                                                                  |            | EP071: C15 - C28 Fraction          | ----       | 2860 mg/kg               | 107              | 75.6                  | 122  |
|                                                                                  |            | EP071: C29 - C36 Fraction          | ----       | 1490 mg/kg               | 97.4             | 78.0                  | 120  |
|                                                                                  |            | EP071: C10 - C36 Fraction (sum)    | ----       | 5020 mg/kg               | 105              | 70.0                  | 130  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4403549)                         |            |                                    |            |                          |                  |                       |      |
| EM2211061-026                                                                    | SP07       | EP080: C6 - C9 Fraction            | ----       | 28 mg/kg                 | 78.6             | 33.4                  | 124  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400434) |            |                                    |            |                          |                  |                       |      |
| EM2211035-001                                                                    | Anonymous  | EP074-UT: C6 - C10 Fraction        | C6_C10     | 33 mg/kg                 | 84.6             | 39.9                  | 109  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400437) |            |                                    |            |                          |                  |                       |      |
| EM2211061-004                                                                    | BH02 - 0.1 | EP080: C6 - C10 Fraction           | C6_C10     | 33 mg/kg                 | 64.7             | 30.8                  | 120  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400517) |            |                                    |            |                          |                  |                       |      |
| EM2211058-006                                                                    | Anonymous  | EP071-EM: >C10 - C16 Fraction      | ----       | 1000 mg/kg               | 97.2             | 71.5                  | 130  |



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 Work Order : EM2211061  
 Client : EDGE GROUP PTY LTD  
 Project : 20220134



| Sub-Matrix: SOIL                                                                             |            |                                     |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------------------|------------|-------------------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                              |            |                                     |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                                         | Sample ID  | Method: Compound                    | CAS Number | Concentration            | MS               | Low                   | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400517) - continued |            |                                     |            |                          |                  |                       |      |
| EM2211058-006                                                                                | Anonymous  | EP071-EM: >C16 - C34 Fraction       | ----       | 3770 mg/kg               | 101              | 76.9                  | 119  |
|                                                                                              |            | EP071-EM: >C34 - C40 Fraction       | ----       | 250 mg/kg                | 106              | 65.3                  | 139  |
|                                                                                              |            | EP071-EM: >C10 - C40 Fraction (sum) | ----       | 5020 mg/kg               | 101              | 70.0                  | 130  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4400533)             |            |                                     |            |                          |                  |                       |      |
| EM2211061-007                                                                                | BH03 - 0.1 | EP071: >C10 - C16 Fraction          | ----       | 1000 mg/kg               | 110              | 72.2                  | 128  |
|                                                                                              |            | EP071: >C16 - C34 Fraction          | ----       | 3770 mg/kg               | 110              | 76.5                  | 119  |
|                                                                                              |            | EP071: >C34 - C40 Fraction          | ----       | 250 mg/kg                | 107              | 66.8                  | 138  |
|                                                                                              |            | EP071: >C10 - C40 Fraction (sum)    | ----       | 5020 mg/kg               | 109              | 70.0                  | 130  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4403549)             |            |                                     |            |                          |                  |                       |      |
| EM2211061-026                                                                                | SP07       | EP080: C6 - C10 Fraction            | C6_C10     | 33 mg/kg                 | 64.0             | 30.8                  | 120  |
| EP080: BTEXN (QCLot: 4400437)                                                                |            |                                     |            |                          |                  |                       |      |
| EM2211061-004                                                                                | BH02 - 0.1 | EP080: Benzene                      | 71-43-2    | 2 mg/kg                  | 101              | 54.4                  | 127  |
|                                                                                              |            | EP080: Toluene                      | 108-88-3   | 2 mg/kg                  | 106              | 57.1                  | 131  |
| EP080: BTEXN (QCLot: 4403549)                                                                |            |                                     |            |                          |                  |                       |      |
| EM2211061-026                                                                                | SP07       | EP080: Benzene                      | 71-43-2    | 2 mg/kg                  | 96.7             | 54.4                  | 127  |
|                                                                                              |            | EP080: Toluene                      | 108-88-3   | 2 mg/kg                  | 93.2             | 57.1                  | 131  |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS (QCLot: 4404347)                               |            |                                     |            |                          |                  |                       |      |
| EM2210264-004                                                                                | Anonymous  | EP202: Mecoprop                     | 93-65-2    | 0.1 mg/kg                | 63.1             | 60.0                  | 140  |
|                                                                                              |            | EP202: MCPA                         | 94-74-6    | 0.1 mg/kg                | 70.2             | 57.0                  | 143  |
|                                                                                              |            | EP202: 2,4-D                        | 94-75-7    | 0.1 mg/kg                | 70.8             | 68.0                  | 139  |
|                                                                                              |            | EP202: Triclopyr                    | 55335-06-3 | 0.1 mg/kg                | 70.2             | 51.0                  | 145  |
|                                                                                              |            | EP202: 2,4,5-T                      | 93-76-5    | 0.1 mg/kg                | 68.1             | 57.0                  | 142  |
|                                                                                              |            | EP202: Picloram                     | 1918-02-1  | 0.1 mg/kg                | # 39.1           | 49.0                  | 138  |
|                                                                                              |            | EP202: Clopyralid                   | 1702-17-6  | 0.1 mg/kg                | # 20.6           | 49.0                  | 149  |

| Sub-Matrix: WATER                               |           |                     |            | Matrix Spike (MS) Report |                  |                       |      |
|-------------------------------------------------|-----------|---------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                 |           |                     |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                            | Sample ID | Method: Compound    | CAS Number | Concentration            | MS               | Low                   | High |
| EG020T: Total Metals by ICP-MS (QCLot: 4396945) |           |                     |            |                          |                  |                       |      |
| EM2210986-003                                   | Anonymous | EG020A-T: Arsenic   | 7440-38-2  | 1 mg/L                   | 93.7             | 82.0                  | 123  |
|                                                 |           | EG020A-T: Beryllium | 7440-41-7  | 1 mg/L                   | 96.5             | 79.0                  | 126  |
|                                                 |           | EG020A-T: Barium    | 7440-39-3  | 1 mg/L                   | 99.0             | 80.0                  | 120  |
|                                                 |           | EG020A-T: Cadmium   | 7440-43-9  | 0.25 mg/L                | 93.2             | 81.8                  | 123  |
|                                                 |           | EG020A-T: Chromium  | 7440-47-3  | 1 mg/L                   | 92.9             | 78.9                  | 119  |
|                                                 |           | EG020A-T: Cobalt    | 7440-48-4  | 1 mg/L                   | 92.8             | 80.7                  | 121  |
|                                                 |           | EG020A-T: Copper    | 7440-50-8  | 1 mg/L                   | 96.0             | 80.4                  | 118  |
|                                                 |           | EG020A-T: Lead      | 7439-92-1  | 1 mg/L                   | 98.9             | 80.5                  | 121  |
|                                                 |           | EG020A-T: Manganese | 7439-96-5  | 1 mg/L                   | 101              | 73.0                  | 123  |



Sub-Matrix: **WATER**

| Sub-Matrix: WATER                                                                |           |                          |            | Matrix Spike (MS) Report |                  |                       |      |
|----------------------------------------------------------------------------------|-----------|--------------------------|------------|--------------------------|------------------|-----------------------|------|
|                                                                                  |           |                          |            | Spike                    | SpikeRecovery(%) | Acceptable Limits (%) |      |
| Laboratory sample ID                                                             | Sample ID | Method: Compound         | CAS Number | Concentration            | MS               | Low                   | High |
| EG020T: Total Metals by ICP-MS (QCLot: 4396945) - continued                      |           |                          |            |                          |                  |                       |      |
| EM2210986-003                                                                    | Anonymous | EG020A-T: Nickel         | 7440-02-0  | 1 mg/L                   | 99.4             | 80.0                  | 118  |
|                                                                                  |           | EG020A-T: Vanadium       | 7440-62-2  | 1 mg/L                   | 92.2             | 81.0                  | 119  |
|                                                                                  |           | EG020A-T: Zinc           | 7440-66-6  | 1 mg/L                   | 98.0             | 74.0                  | 120  |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 4398048)                       |           |                          |            |                          |                  |                       |      |
| EM2210889-003                                                                    | Anonymous | EG035T: Mercury          | 7439-97-6  | 0.01 mg/L                | 103              | 70.0                  | 130  |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 4394056)                         |           |                          |            |                          |                  |                       |      |
| EM2210659-011                                                                    | Anonymous | EP080: C6 - C9 Fraction  | ----       | 280 µg/L                 | 91.1             | 33.9                  | 126  |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4394056) |           |                          |            |                          |                  |                       |      |
| EM2210659-011                                                                    | Anonymous | EP080: C6 - C10 Fraction | C6_C10     | 330 µg/L                 | 77.6             | 34.0                  | 122  |
| EP080: BTEXN (QCLot: 4394056)                                                    |           |                          |            |                          |                  |                       |      |
| EM2210659-011                                                                    | Anonymous | EP080: Benzene           | 71-43-2    | 20 µg/L                  | 102              | 56.3                  | 133  |
|                                                                                  |           | EP080: Toluene           | 108-88-3   | 20 µg/L                  | 110              | 60.4                  | 132  |

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

|              |                      |                         |                                    |
|--------------|----------------------|-------------------------|------------------------------------|
| Work Order   | : EM2211061          | Page                    | : 1 of 16                          |
| Client       | : EDGE GROUP PTY LTD | Laboratory              | : Environmental Division Melbourne |
| Contact      | : NATASHA DUN        | Telephone               | : +61-3-8549 9600                  |
| Project      | : 20220134           | Date Samples Received   | : 10-Jun-2022                      |
| Site         | : Hopetoun Park      | Issue Date              | : 24-Jun-2022                      |
| Sampler      | : GM and ED          | No. of samples received | : 49                               |
| Order number | : ----               | No. of samples analysed | : 27                               |

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** Laboratory Control outliers occur.
- Duplicate outliers exist - please see following pages for full details.
- 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

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





### Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

| Compound Group Name                           | Laboratory Sample ID | Client Sample ID | Analyte                              | CAS Number        | Data   | Limits    | Comment                                         |
|-----------------------------------------------|----------------------|------------------|--------------------------------------|-------------------|--------|-----------|-------------------------------------------------|
| <b>Duplicate (DUP) RPDs</b>                   |                      |                  |                                      |                   |        |           |                                                 |
| EG005(ED093)T: Total Metals by ICP-AES        | EM2211035--001       | Anonymous        | Lead                                 | 7439-92-1         | 132 %  | 0% - 20%  | RPD exceeds LOR based limits                    |
| EG005(ED093)T: Total Metals by ICP-AES        | EM2211061--014       | BH05 - 0.5       | Manganese                            | 7439-96-5         | 32.9 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EG005(ED093)T: Total Metals by ICP-AES        | EM2211035--013       | Anonymous        | Zinc                                 | 7440-66-6         | 35.1 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Acenaphthylene                       | 208-96-8          | 56.8 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Fluorene                             | 86-73-7           | 69.4 % | 0% - 50%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Phenanthrene                         | 85-01-8           | 36.7 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Anthracene                           | 120-12-7          | 39.0 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Fluoranthene                         | 206-44-0          | 40.1 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Pyrene                               | 129-00-0          | 37.8 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Benz(a)anthracene                    | 56-55-3           | 37.6 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Chrysene                             | 218-01-9          | 42.0 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Benzo(b+j) &<br>Benzo(k)fluoranthene | 205-99-2 207-08-9 | 43.6 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Benzo(a)pyrene                       | 50-32-8           | 40.3 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Indeno(1.2.3.cd)pyrene               | 193-39-5          | 33.9 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| EP075B: Polynuclear Aromatic Hydrocarbons     | EM2211035--001       | Anonymous        | Benzo(g,h,i)perylene                 | 191-24-2          | 31.1 % | 0% - 20%  | RPD exceeds LOR based limits                    |
| <b>Matrix Spike (MS) Recoveries</b>           |                      |                  |                                      |                   |        |           |                                                 |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2210264--004       | Anonymous        | Picloram                             | 1918-02-1         | 39.1 % | 49.0-138% | Recovery less than lower data quality objective |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS | EM2210264--004       | Anonymous        | Clopyralid                           | 1702-17-6         | 20.6 % | 49.0-149% | Recovery less than lower data quality objective |

### Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

| Quality Control Sample Type                      | Count |         | Rate (%) |          | Quality Control Specification  |
|--------------------------------------------------|-------|---------|----------|----------|--------------------------------|
|                                                  | QC    | Regular | Actual   | Expected |                                |
| Laboratory Duplicates (DUP)                      |       |         |          |          |                                |
| Electrical Conductivity (1:5) on 40°C dried soil | 0     | 5       | 0.00     | 10.00    | NEPM 2013 B3 & ALS QC Standard |
| pH (1:5) on 40°C dried soil                      | 0     | 5       | 0.00     | 10.00    | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

| Quality Control Sample Type<br>Method | Count |         | Rate (%) |          | Quality Control Specification  |
|---------------------------------------|-------|---------|----------|----------|--------------------------------|
|                                       | QC    | Regular | Actual   | Expected |                                |
| Laboratory Duplicates (DUP)           |       |         |          |          |                                |
| TRH - Semivolatile Fraction           | 0     | 9       | 0.00     | 10.00    | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS)                    |       |         |          |          |                                |
| TRH - Semivolatile Fraction           | 0     | 9       | 0.00     | 5.00     | NEPM 2013 B3 & ALS QC Standard |



## Analysis Holding Time Compliance

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

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

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

Holding times for 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**

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  |   |
| EA001: pH in soil using 0.01M CaCl extract                                                                                                                                       |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA001)<br>BH07 - 0.1,<br>BH09 - 0.5                                                                                                                | SP01,                                                                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 16-Jun-2022 | ✓             | 16-Jun-2022      | 16-Jun-2022 | ✓ |
| EA002-AD: pH (Soils) dried at 40°C                                                                                                                                               |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA002-AD)<br>BH07 - 0.1,                                                                                                                           | BH09 - 0.5                                                                                                                             | 09-Jun-2022              | 16-Jun-2022        | 16-Jun-2022 | ✓             | 17-Jun-2022      | 17-Jun-2022 | ✓ |
| EA010-AD: Conductivity (Soils) dried at 40°C                                                                                                                                     |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA010-AD)<br>BH07 - 0.1,                                                                                                                           | BH09 - 0.5                                                                                                                             | 09-Jun-2022              | 16-Jun-2022        | 16-Jun-2022 | ✓             | 17-Jun-2022      | 14-Jul-2022 | ✓ |
| EA055: Moisture Content                                                                                                                                                          |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA055)<br>BH10 - 0.5,<br>BH12 - 0.1,                                                                                                               | BH11 - 0.5,<br>BH12 - 0.5                                                                                                              | 09-Jun-2022              | ----               | ----        | ----          | 15-Jun-2022      | 23-Jun-2022 | ✓ |
| EA055: Moisture Content (Dried @ 105-110°C)                                                                                                                                      |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA055)<br>BH01 - 0.1,<br>BH02 - 0.1,<br>BH03 - 0.5,<br>BH05 - 0.1,<br>BH06 - 0.1,<br>SP01,<br>SP05,<br>SP09,<br>BH09 - 0.5,<br>BH10 - 0.1,<br>FD01 | BH01 - 0.5,<br>BH03 - 0.1,<br>BH04 - 0.1,<br>BH05 - 0.5,<br>BH07 - 0.1,<br>SP03,<br>SP07,<br>BH08 - 0.1,<br>BH09 - 0.1,<br>BH11 - 0.1, | 09-Jun-2022              | ----               | ----        | ----          | 15-Jun-2022      | 23-Jun-2022 | ✓ |
| EA150: Soil Classification based on Particle Size                                                                                                                                |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA150H)<br>BH07 - 0.1                                                                                                                              |                                                                                                                                        | 09-Jun-2022              | ----               | ----        | ----          | 22-Jun-2022      | 06-Dec-2022 | ✓ |
| EA152: Soil Particle Density                                                                                                                                                     |                                                                                                                                        |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EA152)<br>BH07 - 0.1                                                                                                                               |                                                                                                                                        | 09-Jun-2022              | ----               | ----        | ----          | 22-Jun-2022      | 06-Dec-2022 | ✓ |



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 |
| ED006: Exchangeable Cations on Alkaline Soils |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (ED006)          |                  |             |                          |                    |            |               |                  |            |
| BH07 - 0.1,                                   | BH09 - 0.5       | 09-Jun-2022 | 20-Jun-2022              | 07-Jul-2022        | ✓          | 20-Jun-2022   | 07-Jul-2022      | ✓          |
| ED007: Exchangeable Cations                   |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (ED007)          |                  |             |                          |                    |            |               |                  |            |
| BH07 - 0.1,                                   | BH09 - 0.5       | 09-Jun-2022 | 16-Jun-2022              | 07-Jul-2022        | ✓          | 20-Jun-2022   | 07-Jul-2022      | ✓          |
| ED008: Exchangeable Cations                   |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (ED008)          |                  |             |                          |                    |            |               |                  |            |
| BH07 - 0.1,                                   | BH09 - 0.5       | 09-Jun-2022 | 16-Jun-2022              | 07-Jul-2022        | ✓          | 20-Jun-2022   | 07-Jul-2022      | ✓          |
| EG005(ED093)T: Total Metals by ICP-AES        |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG005T)         |                  |             |                          |                    |            |               |                  |            |
| BH01 - 0.1,                                   | BH01 - 0.5,      | 09-Jun-2022 | 17-Jun-2022              | 06-Dec-2022        | ✓          | 17-Jun-2022   | 06-Dec-2022      | ✓          |
| BH02 - 0.1,                                   | BH03 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH03 - 0.5,                                   | BH04 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH05 - 0.1,                                   | BH05 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH06 - 0.1,                                   | BH07 - 0.1,      |             |                          |                    |            |               |                  |            |
| SP01,                                         | SP03,            |             |                          |                    |            |               |                  |            |
| SP05,                                         | SP07,            |             |                          |                    |            |               |                  |            |
| SP09,                                         | BH08 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH09 - 0.5,                                   | BH09 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH10 - 0.1,                                   | BH10 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH11 - 0.1,                                   | BH11 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH12 - 0.1,                                   | FD01, BH12 - 0.5 |             |                          |                    |            |               |                  |            |
| EG035T: Total Recoverable Mercury by FIMS     |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG035T)         |                  |             |                          |                    |            |               |                  |            |
| BH01 - 0.1,                                   | BH01 - 0.5,      | 09-Jun-2022 | 17-Jun-2022              | 07-Jul-2022        | ✓          | 17-Jun-2022   | 07-Jul-2022      | ✓          |
| BH02 - 0.1,                                   | BH03 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH03 - 0.5,                                   | BH04 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH05 - 0.1,                                   | BH05 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH06 - 0.1,                                   | BH07 - 0.1,      |             |                          |                    |            |               |                  |            |
| SP01,                                         | SP03,            |             |                          |                    |            |               |                  |            |
| SP05,                                         | SP07,            |             |                          |                    |            |               |                  |            |
| SP09,                                         | BH08 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH09 - 0.5,                                   | BH09 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH10 - 0.1,                                   | BH10 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH11 - 0.1,                                   | BH11 - 0.5,      |             |                          |                    |            |               |                  |            |
| BH12 - 0.1,                                   | FD01, BH12 - 0.5 |             |                          |                    |            |               |                  |            |
| EG048: Hexavalent Chromium (Alkaline Digest)  |                  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EG048G)         |                  |             |                          |                    |            |               |                  |            |
| BH01 - 0.1,                                   | BH07 - 0.1,      | 09-Jun-2022 | 16-Jun-2022              | 07-Jul-2022        | ✓          | 17-Jun-2022   | 23-Jun-2022      | ✓          |
| SP01,                                         | BH09 - 0.1,      |             |                          |                    |            |               |                  |            |
| BH11 - 0.1                                    |                  |             |                          |                    |            |               |                  |            |



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 |
| EK026SF: Total CN by Segmented Flow Analyser                                                             |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK026SF)<br>SP01                                                           | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 30-Jun-2022      | ✓          |
| EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser                                             |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK028SF)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH11 - 0.1              | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 30-Jun-2022      | ✓          |
| EK040T: Fluoride Total                                                                                   |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EK040T)<br>SP01                                                            | 09-Jun-2022 | 16-Jun-2022              | 07-Jul-2022        | ✓          | 20-Jun-2022   | 07-Jul-2022      | ✓          |
| EP004: Organic Matter                                                                                    |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP004)<br>BH07 - 0.1, BH09 - 0.5                                           | 09-Jun-2022 | 17-Jun-2022              | 07-Jul-2022        | ✓          | 17-Jun-2022   | 07-Jul-2022      | ✓          |
| EP066: Polychlorinated Biphenyls (PCB)                                                                   |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP066)<br>BH01 - 0.1, BH07 - 0.1,<br>SP01, BH09 - 0.1,<br>BH11 - 0.1       | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| EP068A: Organochlorine Pesticides (OC)                                                                   |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP068)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH10 - 0.1,<br>BH11 - 0.1 | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| EP068B: Organophosphorus Pesticides (OP)                                                                 |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP068)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH10 - 0.1,<br>BH11 - 0.1 | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| EP068C: Triazines                                                                                        |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP068)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH11 - 0.1                | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| EP068D: Pyrethroids                                                                                      |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP068)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH11 - 0.1                | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| EP069: Toxaphene                                                                                         |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP069)<br>BH01 - 0.1, BH07 - 0.1,<br>BH09 - 0.1, BH11 - 0.1                | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |



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  |   |
| EP074A: Monocyclic Aromatic Hydrocarbons                                                                                                    |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01                                                                                             | 09-Jun-2022                                                                      | 15-Jun-2022              | 16-Jun-2022        | ✓           | 16-Jun-2022   | 16-Jun-2022      | ✓           |   |
| EP074H: Naphthalene                                                                                                                         |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01                                                                                             | 09-Jun-2022                                                                      | 15-Jun-2022              | 16-Jun-2022        | ✓           | 16-Jun-2022   | 16-Jun-2022      | ✓           |   |
| EP074I: Volatile Halogenated Compounds                                                                                                      |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01                                                                                             | 09-Jun-2022                                                                      | 15-Jun-2022              | 16-Jun-2022        | ✓           | 16-Jun-2022   | 16-Jun-2022      | ✓           |   |
| EP075(SIM)A: Phenolic Compounds                                                                                                             |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>BH01 - 0.1,<br>BH09 - 0.1,<br>BH12 - 0.1                                                       | BH07 - 0.1,<br>BH11 - 0.1,                                                       | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>BH09 - 0.5                                                                                     |                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 17-Jun-2022      | 26-Jul-2022 | ✓ |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons                                                                                              |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>BH01 - 0.1,<br>BH03 - 0.1,<br>BH05 - 0.1,<br>BH07 - 0.1,<br>SP09,<br>BH09 - 0.1,<br>BH11 - 0.1 | BH02 - 0.1,<br>BH04 - 0.1,<br>BH06 - 0.1,<br>SP05,<br>BH08 - 0.1,<br>BH10 - 0.1, | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |
| Soil Glass Jar - Unpreserved (EP075(SIM))<br>SP07,                                                                                          | BH09 - 0.5                                                                       | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 17-Jun-2022      | 26-Jul-2022 | ✓ |
| EP075A: Phenolic Compounds (Halogenated)                                                                                                    |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01                                                                                             |                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |
| EP075A: Phenolic Compounds (Non-halogenated)                                                                                                |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01                                                                                             |                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |
| EP075B: Polynuclear Aromatic Hydrocarbons                                                                                                   |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01                                                                                             |                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |
| EP075I: Organochlorine Pesticides                                                                                                           |                                                                                  |                          |                    |             |               |                  |             |   |
| Soil Glass Jar - Unpreserved (EP075-EM)<br>SP01                                                                                             |                                                                                  | 09-Jun-2022              | 16-Jun-2022        | 23-Jun-2022 | ✓             | 16-Jun-2022      | 26-Jul-2022 | ✓ |



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 (EP074-UT)<br>SP01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 09-Jun-2022 | 15-Jun-2022              | 16-Jun-2022        | ✓          | 16-Jun-2022   | 16-Jun-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP080)<br>BH01 - 0.1,                      BH02 - 0.1,<br>BH03 - 0.1,                      BH04 - 0.1,<br>BH05 - 0.1,                      BH06 - 0.1,<br>BH07 - 0.1,                      SP05,<br>SP09,                                BH08 - 0.1,<br>BH09 - 0.5,                      BH09 - 0.1,<br>BH10 - 0.1,                      BH10 - 0.5,<br>BH11 - 0.1,                      BH11 - 0.5,<br>BH12 - 0.1,                      BH12 - 0.5                                               |  | 09-Jun-2022 | 15-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 23-Jun-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP071)<br>BH01 - 0.1,                      BH02 - 0.1,<br>BH03 - 0.1,                      BH04 - 0.1,<br>BH05 - 0.1,                      BH06 - 0.1,<br>BH07 - 0.1,                      SP01,<br>SP05,                                SP07,<br>SP09,                                BH08 - 0.1,<br>BH09 - 0.5,                      BH09 - 0.1,<br>BH10 - 0.1,                      BH10 - 0.5,<br>BH11 - 0.1,                      BH11 - 0.5,<br>BH12 - 0.1,                      BH12 - 0.5 |  | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP071)<br>SP07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 26-Jul-2022      | ✓          |



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 Recoverable Hydrocarbons - NEPM 2013 Fractions                                                                                                                                                                                                                           |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP074-UT)<br>SP01                                                                                                                                                                                                                                           |  | 09-Jun-2022 | 15-Jun-2022              | 16-Jun-2022        | ✓          | 16-Jun-2022   | 16-Jun-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP080)<br>BH01 - 0.1, BH02 - 0.1,<br>BH03 - 0.1, BH04 - 0.1,<br>BH05 - 0.1, BH06 - 0.1,<br>BH07 - 0.1, SP05,<br>SP09, BH08 - 0.1,<br>BH09 - 0.5, BH09 - 0.1,<br>BH10 - 0.1, BH10 - 0.5,<br>BH11 - 0.1, BH11 - 0.5,<br>BH12 - 0.1, BH12 - 0.5                |  | 09-Jun-2022 | 15-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 23-Jun-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP071)<br>BH01 - 0.1, BH02 - 0.1,<br>BH03 - 0.1, BH04 - 0.1,<br>BH05 - 0.1, BH06 - 0.1,<br>BH07 - 0.1, SP01,<br>SP05, SP07,<br>SP09, BH08 - 0.1,<br>BH09 - 0.5, BH09 - 0.1,<br>BH10 - 0.1, BH10 - 0.5,<br>BH11 - 0.1, BH11 - 0.5,<br>BH12 - 0.1, BH12 - 0.5 |  | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 26-Jul-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP071)<br>SP07                                                                                                                                                                                                                                              |  | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 26-Jul-2022      | ✓          |
| EP080: BTEXN                                                                                                                                                                                                                                                                              |  |             |                          |                    |            |               |                  |            |
| Soil Glass Jar - Unpreserved (EP080)<br>BH01 - 0.1, BH02 - 0.1,<br>BH03 - 0.1, BH04 - 0.1,<br>BH05 - 0.1, BH06 - 0.1,<br>BH07 - 0.1, SP05,<br>SP09, BH08 - 0.1,<br>BH09 - 0.5, BH09 - 0.1,<br>BH10 - 0.1, BH10 - 0.5,<br>BH11 - 0.1, BH11 - 0.5,<br>BH12 - 0.1, BH12 - 0.5                |  | 09-Jun-2022 | 15-Jun-2022              | 23-Jun-2022        | ✓          | 17-Jun-2022   | 23-Jun-2022      | ✓          |
| Soil Glass Jar - Unpreserved (EP080)<br>SP07                                                                                                                                                                                                                                              |  | 09-Jun-2022 | 16-Jun-2022              | 23-Jun-2022        | ✓          | 16-Jun-2022   | 23-Jun-2022      | ✓          |





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 |  |
| EP202A: Phenoxyacetic Acid Herbicides by LCMS                  |             |                          |                    |            |               |                  |            |  |
| Soil Glass Jar - Unpreserved (EP202)<br>BH09 - 0.1, BH11 - 0.1 | 09-Jun-2022 | 17-Jun-2022              | 23-Jun-2022        | ✔          | 17-Jun-2022   | 27-Jul-2022      | ✔          |  |
| Soil Glass Jar - Unpreserved (EP202)<br>BH01 - 0.1, BH07 - 0.1 | 09-Jun-2022 | 22-Jun-2022              | 23-Jun-2022        | ✔          | 23-Jun-2022   | 01-Aug-2022      | ✔          |  |

Matrix: **WATER**

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 |
| EG020T: Total Metals by ICP-MS                                      |             |                          |                    |            |               |                  |            |
| Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)<br>RINS01 | 09-Jun-2022 | 14-Jun-2022              | 06-Dec-2022        | ✓          | 14-Jun-2022   | 06-Dec-2022      | ✓          |
| EG035T: Total Recoverable Mercury by FIMS                           |             |                          |                    |            |               |                  |            |
| Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)<br>RINS01   | 09-Jun-2022 | ----                     | ----               | ----       | 14-Jun-2022   | 07-Jul-2022      | ✓          |
| EP080/071: Total Petroleum Hydrocarbons                             |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>TRIP01                  | 09-Jun-2022 | 14-Jun-2022              | 16-Jun-2022        | ✓          | 14-Jun-2022   | 24-Jul-2022      | ✓          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>TRIP01                    | 09-Jun-2022 | 14-Jun-2022              | 23-Jun-2022        | ✓          | 14-Jun-2022   | 23-Jun-2022      | ✓          |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions     |             |                          |                    |            |               |                  |            |
| Amber Glass Bottle - Unpreserved (EP071)<br>TRIP01                  | 09-Jun-2022 | 14-Jun-2022              | 16-Jun-2022        | ✓          | 14-Jun-2022   | 24-Jul-2022      | ✓          |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>TRIP01                    | 09-Jun-2022 | 14-Jun-2022              | 23-Jun-2022        | ✓          | 14-Jun-2022   | 23-Jun-2022      | ✓          |
| EP080: BTEXN                                                        |             |                          |                    |            |               |                  |            |
| Amber VOC Vial - Sulfuric Acid (EP080)<br>TRIP01                    | 09-Jun-2022 | 14-Jun-2022              | 23-Jun-2022        | ✓          | 14-Jun-2022   | 23-Jun-2022      | ✓          |





## Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

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)                             |            |       |         |          |          |            |                                |
| Electrical Conductivity (1:5) on 40°C dried soil        | EA010-AD   | 0     | 5       | 0.00     | 10.00    | ✖          | NEPM 2013 B3 & ALS QC Standard |
| Exchangeable Cations on Alkaline Soils                  | ED006      | 1     | 4       | 25.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G     | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Moisture Content                                        | EA055      | 4     | 40      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Organic Matter                                          | EP004      | 2     | 10      | 20.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                       | EP075(SIM) | 3     | 17      | 17.65    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM   | 2     | 11      | 18.18    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                      | EP068      | 1     | 5       | 20.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| pH (1:5) on 40°C dried soil                             | EA002-AD   | 0     | 5       | 0.00     | 10.00    | ✖          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001      | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)      | EP202      | 1     | 6       | 16.67    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB)                         | EP066      | 1     | 4       | 25.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM   | 3     | 11      | 27.27    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF    | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T     | 2     | 20      | 10.00    | 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     | 7     | 40      | 17.50    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Toxaphene by GCMS                                       | EP069      | 1     | 4       | 25.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071      | 3     | 19      | 15.79    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM   | 2     | 11      | 18.18    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080      | 3     | 22      | 13.64    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT   | 1     | 10      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| WAD Cyanide by Segmented Flow Analyser                  | EK028SF    | 1     | 4       | 25.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS)                        |            |       |         |          |          |            |                                |
| Electrical Conductivity (1:5) on 40°C dried soil        | EA010-AD   | 1     | 5       | 20.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Exchangeable Cations on Alkaline Soils                  | ED006      | 1     | 4       | 25.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G     | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Organic Matter                                          | EP004      | 1     | 10      | 10.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                       | EP075(SIM) | 2     | 17      | 11.76    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM   | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                      | EP068      | 1     | 5       | 20.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| pH (1:5) on 40°C dried soil                             | EA002-AD   | 2     | 5       | 40.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| pH in soil using a 0.01M CaCl2 extract                  | EA001      | 2     | 20      | 10.00    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)      | EP202      | 2     | 6       | 33.33    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB)                         | EP066      | 1     | 4       | 25.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM   | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |



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 Control Samples (LCS) - Continued            |            |       |         |          |          |            |                                |
| Total Cyanide by Segmented Flow Analyser                | EK026SF    | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T     | 1     | 20      | 5.00     | 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 |
| Toxaphene by GCMS                                       | EP069      | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071      | 2     | 19      | 10.53    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080      | 2     | 22      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT   | 1     | 10      | 10.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| WAD Cyanide by Segmented Flow Analyser                  | EK028SF    | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB)                                      |            |       |         |          |          |            |                                |
| Electrical Conductivity (1:5) on 40°C dried soil        | EA010-AD   | 1     | 5       | 20.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Exchangeable Cations on Alkaline Soils                  | ED006      | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G     | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Organic Matter                                          | EP004      | 1     | 10      | 10.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                       | EP075(SIM) | 2     | 17      | 11.76    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                      | EP068      | 1     | 5       | 20.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)      | EP202      | 2     | 6       | 33.33    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB)                         | EP066      | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Cyanide by Segmented Flow Analyser                | EK026SF    | 1     | 20      | 5.00     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                                          | EK040T     | 1     | 20      | 5.00     | 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 |
| Toxaphene by GCMS                                       | EP069      | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071      | 2     | 19      | 10.53    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction                             | EP071-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                                      | EP080      | 2     | 22      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace                | EP074-UT   | 1     | 10      | 10.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| WAD Cyanide by Segmented Flow Analyser                  | EK028SF    | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS)                                      |            |       |         |          |          |            |                                |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G     | 2     | 20      | 10.00    | 10.00    | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Organic Matter                                          | EP004      | 1     | 10      | 10.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM)                                       | EP075(SIM) | 2     | 17      | 11.76    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| PCB - VIC EPA 448.3 Screen                              | EP066-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS                                      | EP068      | 1     | 5       | 20.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Phenoxyacetic Acid Herbicides (LCMS - Standard DL)      | EP202      | 1     | 6       | 16.67    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Polychlorinated Biphenyls (PCB)                         | EP066      | 1     | 4       | 25.00    | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |
| Semivolatile Organic Compounds - Waste Classification   | EP075-EM   | 1     | 11      | 9.09     | 5.00     | ✓          | NEPM 2013 B3 & ALS QC Standard |



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 |                                |
| Matrix Spikes (MS) - Continued           |          |       |         |          |          |            |                                |
| Total Cyanide by Segmented Flow Analyser | EK026SF  | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Fluoride                           | EK040T   | 1     | 20      | 5.00     | 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 |
| Toxaphene by GCMS                        | EP069    | 1     | 4       | 25.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction              | EP071    | 1     | 19      | 5.26     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction              | EP071-EM | 1     | 11      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX                       | EP080    | 2     | 22      | 9.09     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Volatile Organic Compounds - Ultra-trace | EP074-UT | 1     | 10      | 10.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| WAD Cyanide by Segmented Flow Analyser   | EK028SF  | 1     | 4       | 25.00    | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |

Matrix: **WATER**

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)      |          |       |         |          |          |            |                                |
| Total Mercury by FIMS            | EG035T   | 2     | 18      | 11.11    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-MS - Suite A | EG020A-T | 2     | 16      | 12.50    | 10.00    | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction      | EP071    | 0     | 9       | 0.00     | 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) |          |       |         |          |          |            |                                |
| Total Mercury by FIMS            | EG035T   | 1     | 18      | 5.56     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-MS - Suite A | EG020A-T | 1     | 16      | 6.25     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction      | EP071    | 1     | 9       | 11.11    | 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)               |          |       |         |          |          |            |                                |
| Total Mercury by FIMS            | EG035T   | 1     | 18      | 5.56     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-MS - Suite A | EG020A-T | 1     | 16      | 6.25     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction      | EP071    | 1     | 9       | 11.11    | 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)               |          |       |         |          |          |            |                                |
| Total Mercury by FIMS            | EG035T   | 1     | 18      | 5.56     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-MS - Suite A | EG020A-T | 1     | 16      | 6.25     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction      | EP071    | 0     | 9       | 0.00     | 5.00     | ✖          | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX               | EP080    | 1     | 20      | 5.00     | 5.00     | ✔          | NEPM 2013 B3 & ALS QC Standard |



## Brief Method Summaries

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

| Analytical Methods                                      | Method   | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pH in soil using a 0.01M CaCl <sub>2</sub> extract      | EA001    | SOIL   | In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl <sub>2</sub> and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                       |
| pH (1:5) on 40°C dried soil                             | EA002-AD | SOIL   | In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on 40°C dried soil after a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3)                                                                                                                                                                                                                                                                                                                          |
| Electrical Conductivity (1:5) on 40°C dried soil        | EA010-AD | SOIL   | In house: Referenced to Rayment and Lyons 3A1 and APHA 2510. Conductivity is determined on soil samples dried at 40°C using a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                      |
| Moisture Content                                        | EA055    | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                |
| Particle Size Analysis by Hydrometer                    | EA150H   | SOIL   | Particle Size Analysis by Hydrometer according to AS1289.3.6.3                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Soil Particle Density                                   | EA152    | SOIL   | Soil Particle Density by AS 1289.3.5.1: Methods of testing soils for engineering purposes - Soil classification tests - Determination of the soil particle density of a soil - Standard method                                                                                                                                                                                                                                                                                                             |
| Exchangeable Cations on Alkaline Soils                  | * ED006  | SOIL   | In house: Referenced to Soil Survey Test Method C5. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with alcoholic ammonium chloride at pH 8.5. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil.                                                                                                                                                                                         |
| Exchangeable Cations                                    | ED007    | SOIL   | In house: Referenced to Rayment & Lyons Method 15A1. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                       |
| Exchangeable Cations with pre-treatment                 | ED008    | SOIL   | In house: Referenced to Rayment & Lyons Method 15A2. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. 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) |
| Hexavalent Chromium by Alkaline Digestion and DA Finish | EG048G   | SOIL   | In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)                                                                                                    |



| Analytical Methods                       | Method   | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Cyanide by Segmented Flow Analyser | EK026SF  | SOIL   | In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3). |
| WAD Cyanide by Segmented Flow Analyser   | EK028SF  | SOIL   | In house: Referenced to APHA 4500-CN C&O / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Hydrogen cyanide is liberated from a slightly acidified (pH 4.5) and is dialysed. Tight cyanide complexes that would not be amenable to oxidation by chlorine are not converted. Iron cyanide complexes are precipitated with zinc acetate. Liberated HCN diffuses through a membrane into a stream of sodium hydroxide where it is carried as CN <sup>-</sup> . The cyanide in caustic solution is buffered to pH 5.2 and further converted to cyanogen chloride by reaction with chloramine-T. Cyanogen chloride subsequently reacts with 4-pyridine carboxylic and 1,3-dimethylbarbituric acids to give a red colour complex. This colour is measured at 600 nm. This method is compliant with NEPM Schedule B(3).                     |
| Total Fluoride                           | EK040T   | SOIL   | (In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Organic Matter                           | EP004    | SOIL   | In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. This method is compliant with NEPM Schedule B(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Polychlorinated Biphenyls (PCB)          | EP066    | SOIL   | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PCB - VIC EPA 448.3 Screen               | EP066-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pesticides by GCMS                       | EP068    | SOIL   | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Toxaphene by GCMS                        | EP069    | SOIL   | In house: Referenced to USEPA 8276. 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TRH - Semivolatile Fraction              | EP071-EM | SOIL   | In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Volatile Organic Compounds - Ultra-trace | EP074-UT | SOIL   | In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |





| Analytical Methods                                    | Method       | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volatile Organic Compounds - Ultra-trace - Summations | EP074-UT-SUM | SOIL   | Summation of MAHs and VHCs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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)                                                                                                                                                                                                                                                                                  |
| Semivolatile Organic Compounds - Waste Classification | EP075-EM     | 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).                                                                                                                                                                                                                                                                                                           |
| SVOC - Waste Classification (Sums)                    | EP075-EM-SUM | SOIL   | Summations for EP075 (EM variation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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.                                                                                                                                                                    |
| Total Metals by ICP-MS - Suite A                      | EG020A-T     | WATER  | In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.                                                                                                                                                                    |
| Total Mercury by FIMS                                 | EG035T       | WATER  | In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl <sub>2</sub> )(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by 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). |
| TRH - Semivolatile Fraction                           | EP071        | WATER  | In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)                                                                                                                                                                                                                                                        |
| TRH Volatiles/BTEX                                    | EP080        | WATER  | In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)                                                                                                                                  |

| Preparation Methods                                      | Method   | Matrix | Method Descriptions                                                                                                                                                                                                                              |
|----------------------------------------------------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NaOH leach for CN in Soils                               | CN-PR    | SOIL   | In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.                                                                                                                                                                |
| pH in soil using a 0.01M CaCl <sub>2</sub> extract       | EA001-PR | SOIL   | In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl <sub>2</sub> and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3). |
| Exchangeable Cations Preparation Method (Alkaline Soils) | ED006PR  | SOIL   | In house: Referenced to Rayment and Lyons method 15C1.                                                                                                                                                                                           |
| Exchangeable Cations Preparation Method                  | ED007PR  | SOIL   | In house: Referenced to Rayment & Lyons method 15A1. A 1M NH <sub>4</sub> Cl extraction by end over end tumbling at a ratio of 1:20. There is no pretreatment for soluble salts. Extracts can be run by ICP for cations.                         |



| Preparation Methods                                        | Method    | Matrix | Method Descriptions                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alkaline digestion for Hexavalent Chromium                 | EG048PR   | SOIL   | In house: Referenced to USEPA SW846, Method 3060A.                                                                                                                                                                                                                                                                                                                                                   |
| Total Fluoride                                             | EK040T-PR | SOIL   | In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.                                                                                                                                                                                                                                                                                                                        |
| 1:5 solid / water leach following drying at 40°C           | EN34-AD   | SOIL   | 10 g of 40°C dried soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.                                                                                                                                                     |
| Hot Block Digest for metals in soils sediments and sludges | EN69      | SOIL   | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3). |
| Organic Matter                                             | EP004-PR  | SOIL   | In house: Referenced to AS1289.4.1.1. Dichromate oxidation method after Walkley and Black. This method is compliant with NEPM Schedule B(3).                                                                                                                                                                                                                                                         |
| 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.                                                                                                                                                                                                                                                    |
| Methanolic Extraction of Soils - Ultra-trace.              | ORG16-UT  | SOIL   | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.                                                                                                                                                                                                                                                    |
| Tumbler Extraction of Solids                               | ORG17     | SOIL   | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.                                                                                                                                                       |
| Tumbler Extraction of Solids - VIC EPA Screen              | ORG17-EM  | SOIL   | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.                                                                                                                                                       |
| Digestion for Total Recoverable Metals                     | EN25      | WATER  | In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)                                                                                                                                                           |
| Separatory Funnel Extraction of Liquids                    | ORG14     | WATER  | In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.                      |
| Volatiles Water Preparation                                | ORG16-W   | WATER  | A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.                                                                                                                                                                                                                                                                                                                 |

## SAMPLE RECEIPT NOTIFICATION (SRN)

**Work Order : EM2211061**

|                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Client : <b>EDGE GROUP PTY LTD</b></p> <p>Contact : NATASHA DUN</p> <p>Address : 423 City Rd<br/>South Melbourne</p> <p>E-mail : natasha.dun@edgegroup.net.au</p> <p>Telephone : ----</p> <p>Facsimile : ----</p> <p>Project : 20220134</p> <p>Order number : ----</p> <p>C-O-C number : ----</p> <p>Site : Hopetoun Park</p> <p>Sampler : GM and ED</p> | <p>Laboratory : Environmental Division Melbourne</p> <p>Contact : Hannah White</p> <p>Address : 4 Westall Rd Springvale VIC Australia<br/>3171</p> <p>E-mail : Hannah.White@alsglobal.com</p> <p>Telephone : +61-3-8549 9600</p> <p>Facsimile : +61-3-8549 9626</p> <p>Page : 1 of 4</p> <p>Quote number : EM2017EDGGRO0001 (MEBQ/108/21<br/>Primary Work)</p> <p>QC Level : NEPM 2013 B3 &amp; ALS QC Standard</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Dates

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Date Samples Received : 10-Jun-2022 13:25 | Issue Date : 11-Jun-2022                      |
| Client Requested Due : 23-Jun-2022        | Scheduled Reporting Date : <b>20-Jun-2022</b> |
| Date                                      |                                               |

### Delivery Details

|                            |                                              |
|----------------------------|----------------------------------------------|
| Mode of Delivery : Carrier | Security Seal : Intact.                      |
| No. of coolers/boxes : 2   | Temperature : 1.15°C - Ice present           |
| Receipt Detail :           | No. of samples received / analysed : 49 / 27 |

### General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **Analytical work for this work order will be conducted at ALS Springvale, ALS Sydney and ALS Newcastle.**
- **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.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.





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

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

- No sample container / preservation non-compliance exists.

## Summary of Sample(s) and Requested Analysis

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

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

Matrix: SOIL

| Laboratory sample ID | Sampling date / time | Sample ID       | (On Hold) SOIL<br>No analysis requested | SOIL - EA055-103<br>Moisture Content | SOIL - P-21/2 (Melb)<br>NEPM (2013) HIL Table 1A(1) Screen with | SOIL - P-22 (Melb)<br>Soil Characterisation Package | SOIL - P-30/4 EPA 1828.2 Table 3 Suite<br>EPA 1828.2 Table 3 Fill Material Suite | SOIL - S-03<br>15 Metals (NEPM 2013 Suite - incl. Digestion) | SOIL - S-26<br>8 metals/TRH/BTEXN/PAH |
|----------------------|----------------------|-----------------|-----------------------------------------|--------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------|
| EM2211061-001        | 09-Jun-2022 00:00    | BH01 - 0.1      |                                         | ✓                                    | ✓                                                               |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-002        | 09-Jun-2022 00:00    | BH01 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  | ✓                                                            |                                       |
| EM2211061-003        | 09-Jun-2022 00:00    | BH01 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-004        | 09-Jun-2022 00:00    | BH02 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-005        | 09-Jun-2022 00:00    | BH02 - 0.5 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-006        | 09-Jun-2022 00:00    | BH02 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-007        | 09-Jun-2022 00:00    | BH03 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-008        | 09-Jun-2022 00:00    | BH03 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  | ✓                                                            |                                       |
| EM2211061-009        | 09-Jun-2022 00:00    | BH03 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-010        | 09-Jun-2022 00:00    | BH04 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-011        | 09-Jun-2022 00:00    | BH04 - 0.5 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-012        | 09-Jun-2022 00:00    | BH04 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-013        | 09-Jun-2022 00:00    | BH05 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-014        | 09-Jun-2022 00:00    | BH05 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  | ✓                                                            |                                       |
| EM2211061-015        | 09-Jun-2022 00:00    | BH05 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-016        | 09-Jun-2022 00:00    | BH06 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-017        | 09-Jun-2022 00:00    | BH06 - 0.5 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-018        | 09-Jun-2022 00:00    | BH06 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-019        | 09-Jun-2022 00:00    | BH07 - 0.1      |                                         | ✓                                    | ✓                                                               | ✓                                                   |                                                                                  |                                                              |                                       |
| EM2211061-020        | 09-Jun-2022 00:00    | SP01            |                                         |                                      |                                                                 |                                                     | ✓                                                                                |                                                              |                                       |
| EM2211061-021        | 09-Jun-2022 00:00    | SP02 HOLD       | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-022        | 09-Jun-2022 00:00    | SP03            |                                         | ✓                                    |                                                                 |                                                     |                                                                                  | ✓                                                            |                                       |
| EM2211061-023        | 09-Jun-2022 00:00    | SP04 HOLD       | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-024        | 09-Jun-2022 00:00    | SP05            |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-025        | 09-Jun-2022 00:00    | SP06 HOLD       | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-026        | 09-Jun-2022 00:00    | SP07            |                                         | ✓                                    |                                                                 |                                                     |                                                                                  | ✓                                                            |                                       |
| EM2211061-027        | 09-Jun-2022 00:00    | SP08 HOLD       | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-028        | 09-Jun-2022 00:00    | SP09            |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-029        | 09-Jun-2022 00:00    | SP10 HOLD       | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-030        | 09-Jun-2022 00:00    | BH08 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-031        | 09-Jun-2022 00:00    | BH08 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-032        | 09-Jun-2022 00:00    | BH08 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-033        | 09-Jun-2022 00:00    | BH09 - 0.1      |                                         | ✓                                    | ✓                                                               |                                                     |                                                                                  |                                                              |                                       |
| EM2211061-036        | 09-Jun-2022 00:00    | BH10 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              | ✓                                     |
| EM2211061-037        | 09-Jun-2022 00:00    | BH10 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                  |                                                              |                                       |



|               |                   |                 | (On Hold) SOIL<br>No analysis requested | SOIL - EA055-103<br>Moisture Content | SOIL - P-21/2 (Melb)<br>NEPM (2013) HIL Table 1A(1) Screen with | SOIL - P-22 (Melb)<br>Soil Characterisation Package | SOIL - P-304 EPA 1828.2 Table 3 Suite<br>EPA 1828.2 Table 3 Fill Material Suite | SOIL - S-03<br>15 Metals (NEPM 2013 Suite - incl. Digestion) | SOIL - S-26<br>8 metals/TRH/BTEXN/PAH |
|---------------|-------------------|-----------------|-----------------------------------------|--------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------|
| EM2211061-038 | 09-Jun-2022 00:00 | BH10 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-039 | 09-Jun-2022 00:00 | BH11 - 0.1      |                                         | ✓                                    | ✓                                                               |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-040 | 09-Jun-2022 00:00 | BH11 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-041 | 09-Jun-2022 00:00 | BH11 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-042 | 09-Jun-2022 00:00 | BH12 - 0.1      |                                         | ✓                                    |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-043 | 09-Jun-2022 00:00 | BH12 - 0.5      |                                         | ✓                                    |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-044 | 09-Jun-2022 00:00 | BH12 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-045 | 09-Jun-2022 00:00 | FD01            |                                         | ✓                                    |                                                                 |                                                     |                                                                                 | ✓                                                            |                                       |
| EM2211061-048 | 09-Jun-2022 00:00 | BH07 - 0.8 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-049 | 09-Jun-2022 00:00 | BH07 - 1.0 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-050 | 09-Jun-2022 00:00 | BH07 - 1.5 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |
| EM2211061-051 | 09-Jun-2022 00:00 | BH09 - 9.6 HOLD | ✓                                       |                                      |                                                                 |                                                     |                                                                                 |                                                              |                                       |

Matrix: **SOIL**

| Laboratory sample ID | Sampling date / time | Sample ID  | SOIL - EP075 SIM Phenols only<br>SIM - Phenols only | SOIL - S-05<br>TRH/BTEXN/8 Metals | SOIL - S-12<br>OC/OP Pesticides |
|----------------------|----------------------|------------|-----------------------------------------------------|-----------------------------------|---------------------------------|
| EM2211061-031        | 09-Jun-2022 00:00    | BH08 - 0.5 |                                                     | ✓                                 |                                 |
| EM2211061-036        | 09-Jun-2022 00:00    | BH10 - 0.1 |                                                     |                                   | ✓                               |
| EM2211061-037        | 09-Jun-2022 00:00    | BH10 - 0.5 |                                                     | ✓                                 |                                 |
| EM2211061-040        | 09-Jun-2022 00:00    | BH11 - 0.5 |                                                     | ✓                                 |                                 |
| EM2211061-042        | 09-Jun-2022 00:00    | BH12 - 0.1 | ✓                                                   | ✓                                 |                                 |
| EM2211061-043        | 09-Jun-2022 00:00    | BH12 - 0.5 |                                                     | ✓                                 |                                 |



# CHAIN OF CUSTODY DOCUMENTATION

|                                               |                                                                             |                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT: EDGE GROUP                            | SAMPLER: GM ED                                                              | <br>Australian Laboratory Services Pty Ltd<br>2-4 Westall Road, Springvale, VIC 3171 |
| ADDRESS / OFFICE: 423 CITY RD SOUTH MELBOURNE | MOBILE: 0409 106 107                                                        |                                                                                                                                                                         |
| PROJECT MANAGER (PM): Natasha Dun             | PHONE:                                                                      |                                                                                                                                                                         |
| PROJECT ID: 20220134                          | EMAIL REPORT TO: natasha.dun@edgegroup.net.au; garry.masur@edgegroup.net.au |                                                                                                                                                                         |
| SITE: Hopetoun Park P.O. NO.:                 | EMAIL INVOICE TO: accounts@edgegroup.net.au                                 |                                                                                                                                                                         |

|                          |                          |                                                                                                |
|--------------------------|--------------------------|------------------------------------------------------------------------------------------------|
| RESULTS REQUIRED (Date): | QUOTE NO.: MEBQ 108 - 20 | ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices) |
|--------------------------|--------------------------|------------------------------------------------------------------------------------------------|

|                                                                                                                         |                                                    |                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| FOR PROPOSED SAMPLES<br>Consider: Seals (order appropriate)<br>Inert Yes No N/A<br>Sample Temperature<br>Chilled Yes No | COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: | Notes: e.g. Highly contaminated samples<br>e.g. "High PAHs expected".<br>Extra volume for QC or trace LORs etc. |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

|                                              |           |        |      |      |             |                       |                                         |                                  |                   |                                           |                                                     |                        |                                           |              |           |      |
|----------------------------------------------|-----------|--------|------|------|-------------|-----------------------|-----------------------------------------|----------------------------------|-------------------|-------------------------------------------|-----------------------------------------------------|------------------------|-------------------------------------------|--------------|-----------|------|
| SAMPLE INFORMATION (note: S = Soil, W=Water) |           |        |      |      |             | CONTAINER INFORMATION |                                         |                                  |                   |                                           |                                                     |                        |                                           |              |           |      |
| ALS ID                                       | SAMPLE ID | MATRIX | DATE | Time | Type / Code | Total bottles         | P21/2 NEPM HIL A Screen with herbicides | P22 NEPM EIL Site Classification | EPA 1828.2 Screen | S26 + S-12 8 metals TRH BTEXN PAH OPP OCP | S27 TRH (C6-C40) / BTEXN / PAH / Phenols / 8 metals | S-5 8 metals TRH BTEXN | S26 TRH (C6-C40) / BTEXN / PAH / 8 Metals | S3 15 metals | TRH BTEXN | HOLD |

|    |          |   |          |  |  |   |   |   |  |   |  |  |   |   |   |  |  |
|----|----------|---|----------|--|--|---|---|---|--|---|--|--|---|---|---|--|--|
| 1  | BH01-0.1 | s | 9/6/2022 |  |  | 1 | X |   |  |   |  |  |   |   |   |  |  |
| 2  | BH01-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   | X |   |  |  |
| 3  | BH01-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 4  | BH02-0.1 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  | X |   |   |  |  |
| 5  | BH02-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 6  | BH02-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  | X |   |   |  |  |
| 7  | BH03-0.1 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   | X |   |  |  |
| 8  | BH03-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   | X |  |  |
| 9  | BH03-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 10 | BH04-0.1 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  | X |   |   |  |  |
| 11 | BH04-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 12 | BH04-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 13 | BH05-0.1 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  | X |   |   |  |  |
| 14 | BH05-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   | X |   |  |  |
| 15 | BH05-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 16 | BH06-0.1 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  | X |   |   |  |  |
| 17 | BH06-0.5 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 18 | BH06-1.0 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |
| 19 | BH07-0.1 | s | 9/6/2022 |  |  | 3 | X | X |  |   |  |  |   |   |   |  |  |
| 20 | BH07-0.4 | s | 9/6/2022 |  |  | 1 |   |   |  | X |  |  |   |   |   |  |  |
| 21 | BH07-0.6 | s | 9/6/2022 |  |  | 1 |   |   |  |   |  |  |   |   |   |  |  |

|                  |       |              |       |                    |  |
|------------------|-------|--------------|-------|--------------------|--|
| RELINQUISHED BY: |       | RECEIVED BY: |       | METHOD OF SHIPMENT |  |
| Name:            | Date: | Name:        | Date: | Con' Note No:      |  |
| Of:              | Time: | Of:          | Time: |                    |  |
| Name:            | Date: | Name:        | Date: | Transport Co:      |  |
| Of:              | Time: | Of:          | Time: |                    |  |

**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;  
 V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulphuric Preserved Amber Glass; H = 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 Bad for Acid Sulphate Soils; B = Unpreserved Bag.

Environmental Division  
Melbourne  
Work Order Reference  
**EM2211061**



Telephone : 61-3-8549 9600

Received: 10/6/22 Carrier: courier  
 C/note:  
 Temp: (11) °C Seal: (1) N  
 Ice / Icebricks / NA



COC Page 2 of 3

# CHAIN OF CUSTODY DOCUMENTATION

|                                               |           |        |          |      |             |                                                                             |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
|-----------------------------------------------|-----------|--------|----------|------|-------------|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------|-----------|------|--|
| CLIENT: EDGE GROUP                            |           |        |          |      |             | SAMPLER: GM ED                                                              |                                         |                                  |                   |                                            |         |  <p>Australian Laboratory Services Pty Ltd<br/>2-4 Westall Road, Springvale, VIC 3171</p> |                                           |              |           |      |  |
| ADDRESS / OFFICE: 423 CITY RD SOUTH MELBOURNE |           |        |          |      |             | MOBILE: 0409 106 107                                                        |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| PROJECT MANAGER (PM): Natasha Dun             |           |        |          |      |             | PHONE:                                                                      |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| PROJECT ID: 20220134                          |           |        |          |      |             | EMAIL REPORT TO: natasha.dun@edgegroup.net.au; garry.masur@edgegroup.net.au |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| SITE: Hopetoun Park P.O. NO.:                 |           |        |          |      |             | EMAIL INVOICE TO: accounts@edgegroup.net.au                                 |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| RESULTS REQUIRED (Date):                      |           |        |          |      |             | QUOTE NO.: MEBQ 108 - 20                                                    |                                         |                                  |                   |                                            |         | ANALYSIS REQUIRED Including SUITES (note - suite codes must be listed to attract suite prices)                                                                               |                                           |              |           |      |  |
| <p>CHILLED: Yes No</p>                        |           |        |          |      |             | COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:                          |                                         |                                  |                   |                                            |         | <p>Notes: e.g. Highly contaminated samples<br/>e.g. "High PAHs expected".<br/>Extra volume for QC or trace LORs etc.</p>                                                     |                                           |              |           |      |  |
|                                               |           |        |          |      |             |                                                                             |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
|                                               |           |        |          |      |             |                                                                             |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
|                                               |           |        |          |      |             |                                                                             |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| SAMPLE INFORMATION (note: S = Soil, W=Water)  |           |        |          |      |             | CONTAINER INFORMATION                                                       |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| ALS ID                                        | SAMPLE ID | MATRIX | DATE     | Time | Type / Code | Total bottles                                                               | P21/2 NEPM HIL A Screen with herbicides | P22 NEPM EIL Site Classification | EPA 182B.2 Screen | S-26 + S-12 8 metals TRH BTEXN PAH OPP OCP | Phenols | S-5 8 metals TRH BTEXN                                                                                                                                                       | S26 TRH (C6-C40) / BTEXN / PAH / 8 Metals | S3 15 metals | TRH BTEXN | HOLD |  |
| 30                                            | BH08-0.1  | s      | 9/6/2022 |      |             | 2                                                                           |                                         |                                  |                   | X                                          |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 31                                            | BH08-0.5  | s      | 9/6/2022 |      |             | 2                                                                           |                                         | X                                |                   |                                            |         | X                                                                                                                                                                            |                                           |              |           |      |  |
| 32                                            | BH08-1.0  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 33                                            | BH09-0.1  | s      | 9/6/2022 |      |             | 2                                                                           | X                                       |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 34                                            | BH09-0.5  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         | X                                                                                                                                                                            |                                           |              |           |      |  |
| 35                                            | BH09-1.0  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 36                                            | BH10-0.1  | s      | 9/6/2022 |      |             | 2                                                                           |                                         |                                  |                   | x                                          |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 37                                            | BH10-0.5  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         | X                                                                                                                                                                            |                                           |              |           |      |  |
| 38                                            | BH10-1.0  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 39                                            | BH11-0.1  | s      | 9/6/2022 |      |             | 2                                                                           | X                                       |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 40                                            | BH11-0.5  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         | x                                                                                                                                                                            |                                           |              |           |      |  |
| 41                                            | BH1-1.0   | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 42                                            | BH12-0.1  | s      | 9/6/2022 |      |             | 2                                                                           |                                         |                                  |                   |                                            | x       | x                                                                                                                                                                            |                                           |              |           |      |  |
| 43                                            | BH12-0.5  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         | x                                                                                                                                                                            |                                           |              |           |      |  |
| 44                                            | BH12-1.0  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              |           |      |  |
| 45                                            | FDO1      | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           | X            |           |      |  |
|                                               | - FS01 -  | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           | X            |           |      |  |
| 46                                            | RINS01    | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           | X            |           |      |  |
| 47                                            | TRIP01    | s      | 9/6/2022 |      |             | 1                                                                           |                                         |                                  |                   |                                            |         |                                                                                                                                                                              |                                           |              | X         |      |  |
| RELINQUISHED BY:                              |           |        |          |      |             | RECEIVED BY:                                                                |                                         |                                  |                   |                                            |         | METHOD OF SHIPMENT                                                                                                                                                           |                                           |              |           |      |  |
| Name: [Signature]                             |           |        |          |      |             | Name:                                                                       |                                         |                                  |                   |                                            |         | Con' Note No:                                                                                                                                                                |                                           |              |           |      |  |
| Of:                                           |           |        |          |      |             | Of:                                                                         |                                         |                                  |                   |                                            |         | Time:                                                                                                                                                                        |                                           |              |           |      |  |
| Name:                                         |           |        |          |      |             | Name:                                                                       |                                         |                                  |                   |                                            |         | Transport Co:                                                                                                                                                                |                                           |              |           |      |  |
| Of:                                           |           |        |          |      |             | Of:                                                                         |                                         |                                  |                   |                                            |         | Time:                                                                                                                                                                        |                                           |              |           |      |  |

**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; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulphuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bad for Acid Sulphate Soils; B = Unpreserved Bag.

48. BH07-0.8 S 9/6/22  
 49. BH07-1.0 S 9/6/22  
 50. BH07-1.5 S 9/6/22

ALSTRAIAN LABORATORY SERVICES P/L  
 Extra Sample

COC Page 3 of 3

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**Attachment 3**

**Calibration Certificate**

# Equipment Calibration Form

## MiniRAE 3000 PID



**Enqip #:** 16846  
**Company:** Edge Group Pty Ltd  
**Consultant:** Natasha Dun  
**PO #:** 20220134  
**Certificate #:** 24980

### INSTRUMENT IDENTIFICATION

**Model Number:** PGM 7320  
**Serial Number:** 592-908396

### INSPECTION RECORD

**Flow Rate:** PASS  
**Buzzer:** PASS  
**Date & Time:** PASS

### CALIBRATION DETAILS

| Parameters  | Standard  | Result    |
|-------------|-----------|-----------|
| Air         | 0.0 ppm   | 0.0 ppm   |
| Isobutylene | 100.0 ppm | 100.0 ppm |

**Alarm Limits:** High 100 Low 50

**Calibration Successful:** YES

**Calibrated By:** Owen Hvalica

**Test Date:** 8/06/2022



116 Thistlethwaite St, South Melbourne 3205  
P 1300 218 987

E [info@enqip.com.au](mailto:info@enqip.com.au) | W [www.enqip.com.au](http://www.enqip.com.au)



# Equipment Calibration Form

## RKI GX-6000 PID



**Enqip #:** 19792  
**Company:** Helia EHS Pty Ltd  
**Consultant:** Ella Denton  
**PO #:** 20220134  
**Certificate #:** 29165

### INSTRUMENT IDENTIFICATION

**Model Number:** GX-6000  
**Serial Number:** 883010028RN

### INSPECTION RECORD

**Flow Rate:** PASS      **Inlet Filter:** PASS  
**Buzzer:** PASS      **Date & Time:** PASS

### CALIBRATION DETAILS

| Parameters  | Standard  | Result   |
|-------------|-----------|----------|
| Air         | 0.0 ppm   | 0.0 ppm  |
| Isobutylene | 100.0 ppm | 99.9 ppm |

**Calibration Successful:** YES

**Calibrated By:** Owen Hvalica

**Test Date:** 21/06/2023



116 Thistlethwaite St, South Melbourne 3205  
P 1300 218 987

E info@enqip.com.au | W www.enqip.com.au

---

# Appendix F: Waste Transport Certificates

Waste record: T4V-1361075-X7F

Grouped waste record: -

Status: Received

Generated on: 25/07/2023 10:58



## Part A Summary

### Producer Name

CALLEJA NOMINEES PTY.  
LIMITED

### Waste classification

N120-S-RPW-Cat D

### Waste Amount

30.00 Tonnes

### Pick Up Address

124 Hopetoun Park Road  
Hopetoun Park 3340

### Waste description

Soil that has contaminant concentrations exceeding the upper limits for fill material contaminant concentrations specified in the Waste Disposal Categories—Characteristics and Thresholds or contains asbestos

### Submitter

Lana Calleja

### Emergency Contact

Ross Closter  
0417 380 642

### Additional Information

### Dispatch Date

18/07/2023

## Part B

### Transporter

STATE HAULAGE PTY LTD  
63 polding st Fairfield heights  
NSW 2165 Australia

### Driver Name

### Date/Time of Dispatch

### Vehicle (Rego)

-

### Trailer 1 (Rego)

-

### Trailer 2 (Rego)

-

### Bulk/No. of packages

### Waste Amount

### Additional Information

## Part C

### Receiver

Maddingley Brown Coal Pty Ltd

### Permission Site

MADDINGLEY BROWN COAL  
PTY LTD [MADDINGLEY] - 11  
Tilleys Rd Maddingley VIC 3340  
AU

### Permission ID

OL000045288

### Date/time of receipt

18/07/2023 10:59

### Bulk/No of packages

No

### Amount received

40.64 Tonnes

### Total amount received in bulk

### Temporary Confinement

No

### Treatment code

D18

Landfill Disposal of Category D  
soil

### Discrepancy

### Addition Information

Waste record: T4V-1361075-X7F

Grouped waste record: -

Status: Received

Generated on: 25/07/2023 10:58



## Part A Additional Information

### Created on behalf of producer

Yes

### Subsidiary Hazards

### Basal Permit

### Accredited Consigner

### Packing Group

### Nominated Transporter

STATE HAULAGE PTY LTD  
63 polding st Fairfield heights  
NSW 2165 Australia

### Waste Origin

3212

### Container Type

### Nominated Receiver

MADDINGLEY BROWN COAL  
PTY LTD

### Intended treatment

Disposal

### Contaminates 1/2/3/4

12

### Place or Premise

MADDINGLEY BROWN COAL  
PTY LTD [MADDINGLEY] - 11  
Tilleys Rd Maddingley VIC  
3340 AU

### Dangerous Goods

No

### Coming From

Victoria

### Permission ID

OL000045288

UN No. -

### Consignment Auth

UN Class -