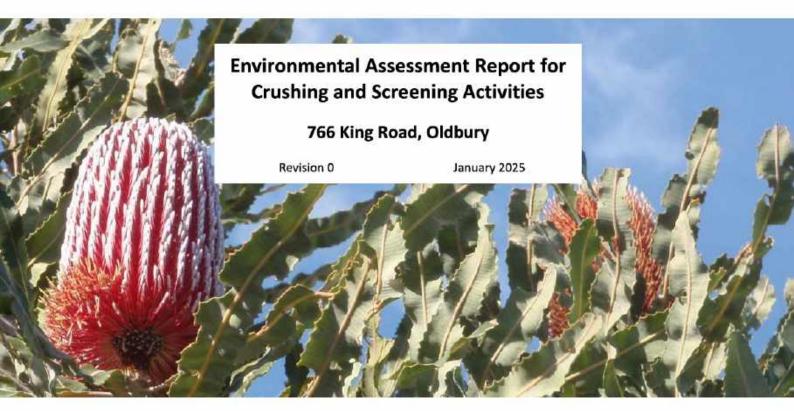


# COTERRA



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# **Appendices**

Appendix 1 ASIC Current Company Extract

Appendix 2 Certificate of Title for 766 King Road, Oldbury

Appendix 3 Environmental Features Memorandum

Appendix 4 Aurora Environmental 2024, Limited Assessment of the Main Stockpile and Wood Stockpile

Appendix 5 Aurora Environmental 2023, Limited Stockpile Assessment



#### 1 Introduction

#### 1.1 Overview

Coterra Environment on behalf of Hope Valley Wood Waste Pty Ltd (HVWW) as the occupier of 766 King Road has prepared this Environmental Assessment Report as supporting information to an *Environmental Protection Act 1986* (EP Act) works approval application. HVWW is proposing to remediate its site and enlarge the transport depot on site. In the process of doing so, it would make the premises prescribed. Consequently, a works approval is required.

The applicant for the works approval is HVWW and a copy of the current company extract is set out in Appendix 1.

The location of the premises at 766 King Road, Oldbury in the Shire of Serpentine Jarrahdale is shown and set out in Figure 1 through to Figure 5. A copy of the certificate of title for the land is attached as Appendix 2.

HVWW propose to remediate the construction and demolition waste on site (about 25,000m³) by crushing and screening it to make fill material. This fill will be used to raise low lying land to the west of the existing transport depot, making the depot larger.

The abovementioned site activity would involve the use of mobile crushing and screening equipment supported by utility plant and equipment (excavators, dump trucks and frontend loaders etc.).

The site activity has a short time frame of 12 to 16 weeks and does not involve the construction of site infrastructure, just the use of mobile equipment readily assembled on site and put into service.

In accordance with the provisions of the *EP Act*, the proposed site activity would make the site prescribed under category 13 as listed in Schedule 1 to the *Environmental Protection Regulations* 1987 (the Regulations) as detailed in Table 1-1 below.:

Table 1-1: Schedule 1 Activities of the Environmental Protection Regulations 1987

| Category<br>number | Description of Category (Activity)  | Threshold capacity requiring approval   |
|--------------------|---|---|
| 13                 | Crushing of building material: premises on which waste building or demolition material (for example, bricks, stones or concrete) is crushed or cleaned. | The first of the first of the second of the |

In accordance with the provisions of the EP Act, a works approval is required for the abovementioned activity prior to and for the construction phase of the project. A licence should be held at the operational stage. Given the short-term duration of the project (a few months), HVWW is seeking approval to operate the crushing and screening equipment under time limited operational conditions to be attached to the works approval and not under the provisions of a subsequent and separate licence.



#### 1.2 Premises Background

The location of the premises is shown on Figure 1 through to Figure 6. An aerial image of the site is provided below in Plate 1-1.



Plate 1-1: Current Site Aerial Image December 2024

Source: Portion of Figure 2 of this report

Prior to 2015 the premises was predominantly cleared farmland used for agricultural purposes. An aerial image of the site in 2014 is provided in Plate 1-2 below. During 2015 the eastern portion of the land was raised to create a transport depot and wood processing yard as shown in Plate 1-3. Raised bunds (about 4m high) were created on the eastern, southern and northern portions of the transport depot to screen site activities. These site works were completed in accordance with Development Authority OCM019.02.15 granted by the Shire of Serpentine Jarrahdale on 23 February 2015.

Vegetation has been planted in the 4m high bunds to create a natural aesthetic view of the sites.



Plate 1-2: Site Aerial Image November 2014

Source: MNG Access Maps accessed 12/12/24



Plate 1-3: Site Aerial Image August 2015

Source: MNG Access Maps accessed 12/12/24

From 2015 until about 2019 the occupier amongst other site operations, stockpiled about 25,000m<sup>3</sup> of commercial and demolition (C&D) material. This material stockpile is shown Plate 1-1 through to Plate 1-5 below. Acceptance and storage of C&D material did not accord with the Shire's Development Approval and the Shire has until recent times, been working to see that it is removed from the site.





Plate 1-4: Site Transport Depot, Enlarged Aerial Image December 2024 Source: MNG Access Satellite Imagery – Accessed 12 /12/2024



Plate 1-5: C&D Material Stockpile Location

Source: Portion of Figure 6 of this report

Mr Jonnie Morton through the Thomas Road Property Pty Ltd (TRPP) acquired the premises in June 2023 and was not involved in any of the former site activities. The focus of Mr Morton's activities is to remediate the site and expand the transport depot in an environmentally responsible and economic manner.

The premises are currently used in accordance with the site's Development Approval, as a transport depot and a facility that grinds/mulches timber.



#### 1.3 Site contamination Status

As a result of the abovementioned former site activities, the premises were classified as 'possibly contaminated – investigation required' during 2019 by the Department of Water and Environmental Regulation (DWER) under the provisions of the Contaminated Sites Act 2003. Small amounts of asbestos were detected.

Site investigations are currently underway. These include extensive sampling of stockpiled material and installation of four groundwater bores to assess groundwater quality.

#### 1.4 Premises Remediation Plan and Development

In summary, the remediation plan for the site is based on recovering resources from stockpiled C&D material and using this resource on or off-site as described in Table 1-2 below. If in the event that materials is identified as being contaminated or potentially contaminated with unwanted materials or materials that might be harmful, these materials will be separated and consigned to an appropriately classified landfill. Fill materials will be added to the land and supervised by Civil Engineers and applied in a controlled manner for good civil stability of the filled areas.

Table 1-2: Resource Recovery Usage Plan

| Material Description | Resources to be Recovered              | Usage Plan   |  |
|----------------------|--|--|--|
|                      | Steel                                  | Sold to a scrap metal merchant   |  |
|                      | Timber                                 | Ground to make mulch   |  |
| C&D stockpile        | Sand                                   | To be used as fill material either on or off site                      |  |
|                      | Concrete and bricks or pieces of these | Crushed and screened and then to be used as fill either on or off site |  |

A more detailed and earlier remediation plan is set out in Section 3, Site Remediation Plan.

The proposed layout and general arrangement of the remediated site is provided in Figure 7 with portion of that Figure shown in the following Plate below:

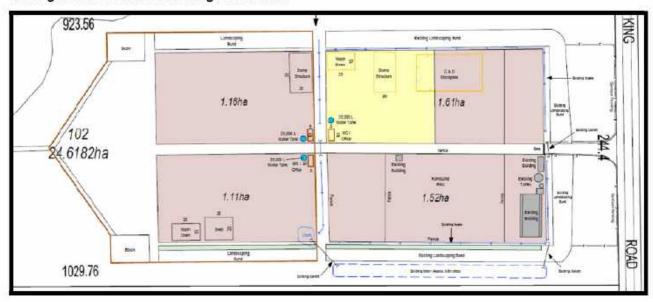


Plate 1-6: Remediated site layout and general arrangements on project completion Source: Portion of Figure 7 of this report



#### 1.5 Location of Crushing and Screening Equipment

Mobile crushing and screening equipment is to be located next to the stockpile of C&D material as shown on Figure 5.

#### 1.6 The Applicant and the Premises Occupier

Hope Valley Wood Waste Pty Ltd is currently the occupier of 766 King Road and it holds a lease for the site from title holder of the land, TRPP. The sole Director of HVWW, Mr John Morton (Jonnie) also controls TRPP as a sole Director and he represents both companies.

#### 1.7 Approval Requirements

#### 1.7.1 Shire of Serpentine Jarrahdale Planning Approval

The project to enlarge the transport depot will need planning approval from the Shire of Serpentine Jarrahdale. In this regard, an application to amend the existing Development Approval was lodged with the Shire on 1 May 2024 and it is currently being deliberated with Shire Officers. It is expected to go before the February 2025 Council meeting for approval with the (expected) support of Shire Officers.

#### 1.7.2 EPA Separation distances

The Western Australian Environmental Protection Authority (EPA) provides guidance on the assessment of environmental factors associated with industrial developments in its 2005 Guidance, *Separation Distances* between Industrial and Sensitive Land Uses. In this Guidance it lists noise and dust as matters that need to be considered at crushing and screening facilities, as set out in Table 1-3 below.

Table 1-3: EPA Separation distances between Industrial and Sensitive Land Uses

| Industry                          |    | Description of  | Key                            | Impacts |       |      |       |      | Buffer                                     |
|-----------------------------------|----|---|--------------------------------|---------|-------|------|-------|------|--|
|                                   |    | industry  | Government agencies for advice | Gaseous | Noise | Dust | Odour | Risk | distance<br>(m) and<br>qualifying<br>notes |
| Crushing<br>Building<br>materials | of | Crushing or<br>cleaning of waste<br>demolition material | Local Gov<br>DWER              |         | *     | 1    |       |      | 1,000m                                     |

The above sets out that the premises should ideally have a separation of 1,000m to the nearest dwelling. Figure 5 sets out that there are five dwellings within a radial distance of 1,000 to the site with the nearest dwelling being about 350m to the southeast of the proposed activity area. To the south at a distance of about 400m is the King Road Brewery that also operates a restaurant. The brewery and its associated restaurant are predominantly occupied in the evening and the weekend.

The Guidelines note that where the separation distance between industrial and sensitive land uses is less than the generic distance, studies must be presented to show that there will not be unacceptable impacts.

#### 1.7.3 DWER Works Approval and Licence

Under Part V, section 52 of the EP Act an individual or an entity that causes premises to become prescribed is required to obtain a works approval (for construction) and a licence or registration (for the operational phase).

The purpose of a works approval is to allow the Department of Water and Environmental Regulation (DWER) to assess the environmental acceptability of a development (or an upgrade program) against its policies, guidelines and standards. Works approvals usually contain conditions to ensure the premises can operate in



an environmentally acceptable manner and that the works themselves do not cause unacceptable environmental impacts.

#### 1.7.4 Particulars of the Works Approval Application

As the proposed site activity will make the premises prescribed, a works approval should be held and accordingly, this application is made. The proposed activity does not involve the construction of permanent infrastructure, just the use of mobile equipment mobilised to site and operated. As such, commissioning of the equipment would not be needed.

The provisional timing for the project is to commence activities in about April 2025 and process site materials in 3 or 4 campaigns for a week or two at a time. This will allow for stockpiles of materials to be created and tested to ensure that acceptable materials have been produced for civil fill. The applicant is not proposing to bring or allow wastes to be brought to the site, just process the existing stockpiled materials.

Site works should be completed by the end 2025 though it would be prudent to grant the standard duration of 3 years in the works approval to be granted as a contingency allowance for unavoidable delays.

The various components of the crushing and screening equipment will be either self-powered by diesel engines coupled to direct drives or through hydraulically powered equipment. Some equipment may be electrically powered and if this the case, a small site-based diesel-electric generator (20 40 kVA) will be used.

As the duration of the site's prescribed activities might only be in the order of 3 months, the applicant is seeking approval within the works approval to operate the mobile crushing and screening equipment during a time-limited operational phase, not exceeding 150 days (non-consecutive days in total duration). This would forego the requirement to hold a licence which would otherwise normally be required. The applicant considers this approach to be a better use of the Department's and HVWW resources to issue one, rather than two regulatory approvals for a short-term project with minimal impacts.

The particulars sought in the works approval are summaries in Table 1-4 below:

Table 1-4: Particulars sought in the works approval to be granted

| Number | Works Approval Particular       | Request   |
|--------|---------------------------------|---|
| 1      | Infrastructure                  | No permanent site infrastructure is to be constructed. Mobile equipment will be mobilised to site and operated.   |
| 2      | Environmental compliance report | Not required. As above.   |
| 3      | Duration                        | 3 years   |
| 4      | Commissioning                   | Not required. Mobile and modular equipment will be brought to site and operated. Commissioning is not envisaged nor required.   |
| 5      | Time limited operations         | 150 non-consecutive days in total   |
| 6      | Materials to be processed       | Site based materials only. No waste material to be brought onto the premises from elsewhere. Please note that HVWW may bring clean fill and other inert materials (road base, aggregate, recovered asphalt material, asphalt etc) onto the site for civil purposes. |

#### 1.8 Purpose of this Document

This document has been prepared to accompany an application for an EP Act works approval.



#### **2** Existing Environment

#### 2.1 Climate

Perth experiences a Mediterranean climate with cool, wet winters and warm, dry summers. The closest Bureau of Meteorology weather station to the site is the Jandakot Station (No. 009172), located approximately 20 km north of the site (BoM, 2024).

#### 2.1.1 Rainfall and Temperature

Jandakot experiences an average annual rainfall of 809.9 mm (Plate 2-1). Drier weather conditions are experienced in summer months, with the lowest mean rainfall experienced in December (9.9 mm), and higher rainfall experienced throughout winter months, with the highest mean rainfall recorded in July (174.0 mm) (BoM, 2024).

The mean maximum temperature is highest in February (31.7°C), and lowest mean minimum temperatures are recorded in July (18.1°C) (BoM, 2024).

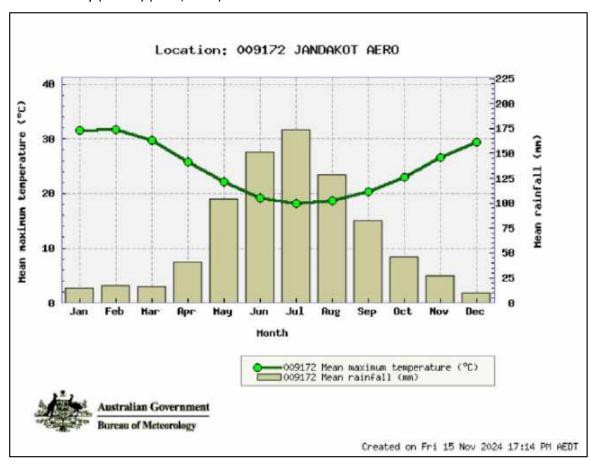


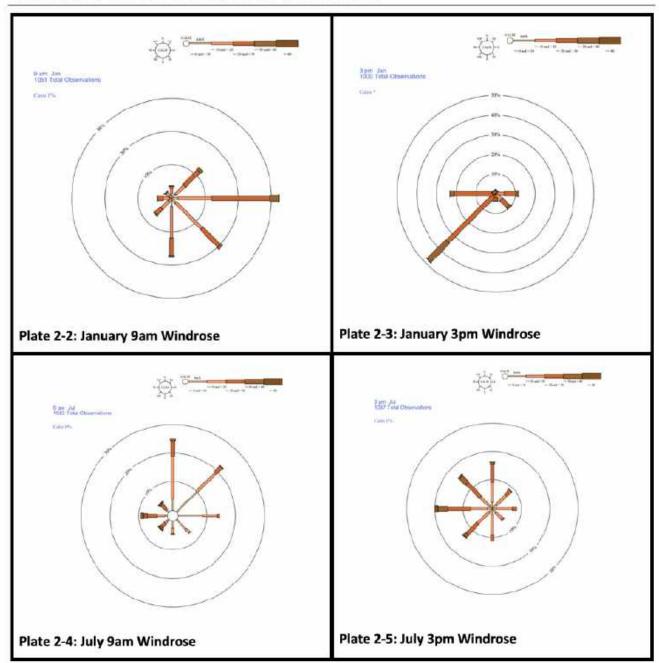
Plate 2-1: Mean temperature and mean rainfall

Source: BoM, 2024

#### 2.1.2 Wind

Predominant summer wind conditions include morning easterly winds (Plate 2-2) and afternoon south-westerly winds (Plate 2-3). Winter wind directions predominantly come from a northerly direction in the mornings (Plate 2-4) and westerly direction in winter afternoons (Plate 2-5) (BoM, 2024).





Source: BoM, 2024

#### 2.2 Topography, Geology and Soils

#### 2.2.1 Topography

Topography at the site is flat with elevations ranging from 10 metres Australian Height Datum (mAHD) to 11 m AHD (MNG, 2024).

#### 2.2.2 Soils and Geology

The Department of Primary Industries and Regional Development (DPIRD) maps soils on site as part of the Pinjarra System (unit 213Pj), described as (DPIRD, 2024):

 Swan Coastal Plain from Perth to Capel. Poorly drained coastal plain with variable alluvial and aeolian soils. Variable vegetation includes Jarrah, marri, wandoo, paperbark, sheoak and rudis.

The site contains two soil sub-systems (DPIRD, 2024):



- Pinjarra P1d Phase (unit 213Pj\_P1d): Flat to very gently undulating plain with deep acidic mottled yellow duplex (or effective duplexes) soils. Shallow pale sand to sandy loam over clay; imperfect to poorly drained and moderately susceptible to salinity
- Pinjarra P3 Phase (unit 13Pj\_P3): Flat to very gently undulating plain with deep, imperfect to poorly
  drained acidic gradational yellow or grey-brown earths and mottled yellow duplex soils, with loam to
  clay loam surface horizons

The DPIRD soil system mapping at the site outlines the below land degradation risk levels for the mapped soils at the site (DPIRD, 2024; Table 2-1).

Table 2-1: Land Degradation Risk Categories

| Rick Category               | Unit 213Pj_P1d                                      | Unit 13Pj_P3   |
|-----------------------------|---|--|
| Water erosion               | 0% of map unit has a very high to extreme hazard    | 0% of map unit has a very high to extreme hazard     |
| Wind erosion                | 15% of map unit has a high to extreme hazard        | 0% of map unit has a high to extreme hazard          |
| Flood hazard                | 0% of the map unit has a moderate<br>to high hazard | 0% of the map unit has a moderate to high hazard     |
| Salinity risk               | 50% of map unit has a moderate<br>hazard            | 5% of map unit has a moderate<br>hazard              |
| Waterlogging and inundation | 100% of map unit has a moderate to very high risk   | 100% of map unit has a moderate to<br>very high risk |

Source: DPIRD, 2024

#### 2.2.3 Acid Sulphate Soils

The site is mapped as containing 'Moderate to Low Risk' of Acid Sulphate Soils (ASS) occurring within 3 m of natural soil surface, but high to moderate risk of ASS beyond 3 m of natural soil surface (Landgate, 2024).

A review of DWER's guidance as to when ASS investigations should be undertaken (i.e., when there is potential for ASS impacts) for the proposed development is outlined below (Table 2-2; DER, 2015). This review indicates that ASS disturbance is not predicted. As such, no ASS management is currently proposed.

Table 2-2: DWER Guidance on when investigations should be undertaken for ASS

| Actions referred to in DER Guidance (DER, 2015)   | Comments  |
|---|---|
| ASS disturbing subdivision or development that is subject to conditional approval requiring the investigation and management of ASSs  | It is unlikely that the DA will require an ASS Management Plan.                             |
| Soil or sediment disturbance of 100m³ or more in an area depicted on an ASS risk map as Class I 'high to moderate risk of ASS occurring within 3m of natural soil surface' (e.g. construction of roads, foundations, installation of underground infrastructure, drainage works, land forming works, dams and aquaculture ponds or sand or gravel extraction) | The site does not contain Class I ASS risk areas.   |
| Soil or sediment disturbance of 100m³ or more with excavation from below the natural watertable in an area depicted on an ASS risk map as Class II 'moderate to low risk of ASS occurring within 3m of natural soil surface but high to moderate risk of ASS beyond 3m of natural soil surface'.  | Soil or sediment disturbance below the watertable within the Class II zone is not proposed. |
| Lowering of the watertable, whether temporary or permanent (e.g. for groundwater abstraction, dewatering, installation of new drainage,   | No dewatering is proposed.  |



| Actions referred to in DER Guidance (DER, 2015)   | Comments  |
|---|---|
| modification to existing drainage), in areas depicted in an ASS risk map as Class I 'high to moderate risk of AASS or PASS occurrence' or Class II 'moderate to low risk of AASS or PASS occurrence within 3m of natural soil surface'. |   |
| Any dredging operations   | Not applicable.  No dredging proposed.                  |
| Extractive industry works (e.g. mineral sand mining) in any of the areas listed in Table 1  | Not applicable.  No extractive industry works proposed. |
| Flood mitigation works, including construction of levees and flood gates, in any of the areas listed in Table 1.  | Not applicable.  No flood mitigation works proposed.    |

#### 2.3 Hydrology

#### 2.3.1 Surface Water and Wetlands

The site does not contain any surface water features. The Birriga Main Drain runs parallel to the northwestern border of the site, however it does not intercept the site (Landgate, 2024).

The site lies within the mapped extent of the Multiple Use Wetland (MUW) UFI 16,021, which spans a total of 27,602.08 ha. A portion of the northwestern corner of the site is overlapped by about 0.05 ha of the Conservation Category Wetland (CCW) UFI 14,742, which spans a total area of about 5.45 ha. The proposed facility is located about 750m to the east of the mapped CCW and a 50 m buffer to the CCW will be maintained for all site works/ product distribution.

#### 2.3.2 Groundwater

The site is not within the mapped area of depth to groundwater and therefore groundwater levels cannot be predicted at a desktop level.

#### 2.4 Flora and Vegetation

Pre-European vegetation at the site was historically mapped as being part of the Pinjarra 968 vegetation association. This association is described as 'Medium woodland; jarrah, marri & wandoo' (GoWA, 2019a).

The vegetation complex at the site is mapped as the Guildford Complex and is described as 'A mixture of open forest to tall open forest of Corymbia calophylla (Marri) - Eucalyptus wandoo (Wandoo) - Eucalyptus marginata (Jarrah) and woodland of Eucalyptus wandoo (Wandoo) (with rare occurrences of Eucalyptus lane-poolei (Salmon White Gum)). Minor components include Eucalyptus rudis (Flooded Gum) - Melaleuca rhaphiophylla (Swamp Paperbark) (GoWA, 2019b).

The site was historically cleared for agricultural purposes prior to 1965, with few scattered isolated trees remaining. Presently, vegetation at the site consists of weedy regrowth, notably grasses and \*Ricinus communis (Castor Oil Plant) which has grown between rubbish stockpiles (Plate 2-6; Plate 2-7).





Plate 2-6: Regrowth of weeds at site



Plate 2-7: Vegetation around stockpiles

Source: Coterra Environment, 2024



#### 2.5 Fauna and Habitat

As the vegetation at site is largely weed species, it is not expected that any fauna is reliant on the vegetation at site and, if present, utilise the site in a transitory nature only.

The remnant trees located in the farm paddock will not be removed as part of the proposed works and therefore impacts to fauna will be little to none.

#### 2.6 Heritage

#### 2.6.1 Aboriginal Heritage

The site does not contain any known Aboriginal heritage sites. The closest known Aboriginal heritage site is located approximately 4 km northwest of the site and is associated with the Historic Place ID 3,554 (Woolcoot Road Swamp, Artefacts/ Scatter/ Camp/ Other) (Landgate, 2024).

#### 2.6.2 European Heritage

A search of the Heritage Council InHerit database did not identify any European heritage sites within or adjacent to the site. The closest heritage site is Manjedal Brook (Place No. 8,482), located approximately 4 km northeast of the site (Heritage Council, 2024).

#### 2.7 Bushfire

The entirety of the site is mapped as a Bushfire Prone area. These areas are defined as being subject to, or likely subject to bushfire attack and are identified by the presence of and proximity to bushfire prone vegetation and includes both the area containing bushfire prone vegetation and a 100 m buffer zone immediately surrounding it (Landgate, 2024).



#### 3 Site Remediation Plan

#### 3.1 Purpose of the remediation plan

This Plan describes the approach to be taken to manage the existing stockpile of C&D material that was left on the site by a previous occupier.

The plan has been developed in consultation with Aurora Environmental and is based on detailed contaminated sites investigations to establish the nature of the stockpiled material and ensure that the proposed management response meets the requirements of both DWER and also the Shire of Serpentine Jarrahdale. This Plan describes the approach to be taken to manage existing stockpiled C&D material.

#### 3.2 Background to the plan

The current owner purchased the site aware of its environmental constraints with a view to using the site for plant and equipment laydown and storage (i.e., commercial / industrial purpose). During the site's previous occupation, uncontrolled C&D materials were imported to the site. It is for this reason that the site was classified under the Contaminated Sites Act 2003 (CS Act) as 'Possibly Contaminated – Investigation Required' by DWER. Very minor amounts of asbestos were identified in the C&D material.

A previous development application was made in 2023 to the Shire of Serpentine – Jarrahdale (the Shire) to manage the C&D material and remediate the site, through off-site disposal through this course of action did not occur due to its prohibitive cost.

The Shire approved the works subject to conditions. These included the development of a suitable remediation plan and environmental management plans acceptable to the DWER and the Department of Health (DoH).

Prior to TRPP purchasing the site, Aurora Environmental and TRPP held detailed discussions with the Shire and DWER regarding possible alternative management approaches for the C&D material including the possibility of on-site containment instead of the previously proposed offsite disposal. DWER and Shire indicated that a new Development Application process would be required and that similar conditions would likely apply, but it was considered that onsite management could be supported if suitable controls and regulatory approvals were in place.

It was agreed that the characteristics of the stockpiled material would be characterised by Aurora Environmental in accordance with the requirements of the Contaminated Sites Act. If the stockpiled material proved to be of satisfactory quality to allow re-use on site, the material would be crushed, screened and inspected prior to it being placed on site under geotechnical supervision. The investigations conducted by Aurora Environmental have demonstrated that the material is in fact suitable for re-use on site. A summary of the contamination investigations is presented in Section 3.3.

HVWW now wishes to adopt the following broad management approach:

The main stockpile of C&D material will be processed by:

- Magnetic separation of ferrous metals
- Separation of timber waste for recycling
- Screening to separate fines materials and magnetic separation of fine ferrous materials
- Crushing and screening of larger material component pieces to produce a crushed material suitable for placement and compaction on site.

Section 3.4 sets out in further detail the process and processing equipment to be used.



It is estimated that the large C&D stockpile contains up to 25,000m³ of material and after processing, this volume would be approximately 20,000m³ bank of material once placed on the ground and compacted. HVWW propose that the material is placed in the western area of the site as subsurface fill with a nominal thickness of 1-1.5 m. Once compacted, the fill would be covered with at least 300mm thickness of clean sand or limestone sub-base and a nominal 40 mm of recycled asphalt material as has been used elsewhere on the site. HVWW will source commercially available sand and limestone and bring them on to the site.

In addition to the main C&D material, there are a number of smaller stockpiles of miscellaneous fill material on the western part of the site, The volume of material in these stockpiles is estimated to be less than 2,000m<sup>3</sup>. This material will be raked to remove vegetation which will be mulched/recycled and then screened with a rake bucket on an excavator and also placed as subsurface fill.

#### 3.3 Environmental investigation of C&D material

Aurora Environmental has undertaken extensive investigations into the quality of material in both the main C&D stockpile and the western stockpiles. These investigations have been completed in accordance with DWER Contaminated Sites guidelines and the key findings are:

- Chemical contaminants (metals, hydrocarbons, volatile hydrocarbons and pesticides are all within the guidelines for Commercial and Industrial land uses.
- One test pit in the large C&D material stockpile exhibited slightly elevated levels of arsenic and zinc, albeit still within the allowable limits for commercial and industrial land use.
- No asbestos or asbestos containing material were observed in the main C&D waste stockpile.
- Several fragments of asbestos containing materials were observed in the Western stockpiles and these were removed. The frequency/concentrations of these finds were consistent with the proposed commercial and industrial land use.

Aurora concluded that the stockpiled material was suitable to be retained on the site as fill covered by a layer of clean material as proposed by HVWW. Copies of the Aurora Environmental reports are included with this plan as Appendix 4 and Appendix 5.

Aurora also made the following additional recommendations to ensure that the work associated with relocating the stockpiled material proceeds without causing unacceptable impacts and also to support the site being reclassified by DWER as "Remediated for Restricted Use (Commercial and Industrial)":

- A Preliminary Site Investigation (PSI) is to be completed to support the reclassification.
- Four shallow groundwater wells have been installed to assess groundwater quality and flow directions
- An environmental management plan is developed to guide the rehabilitation process. This plan is to address dust and noise control, monitoring of works and management of unexpected finds of material such asbestos.
- On completion of the works, a final report is to be submitted to DWER requesting re-classification of the site as described previously.

Work has commenced in preparing the PSI and the groundwater monitoring bores were installed during November 2024.

#### 3.4 Proposed Approach for Managing the C&D Stockpile

The main aim is to safely process the existing material to produce suitable fill materials that will allow the construction of a nominal 2 Ha of additional hardstand area in accordance with the current development



approval footprint. This hardstand area will be constructed by placing at least 300 mm of clean fill over the fill derived from the C&D material and topped with a nominal 40mm of asphalt. Detailed drawings of the fill area will be presented with the Works Approval application.

A nominal 2 Ha area at the western end of the site which will be used to place and compact the process C&D fill. As there is a nominal 25,000m<sup>3</sup> (bank) of fill, this will mean that the compacted fill will be in a layer approximately 1m thick.

The approach to be adopted will be:

- 1. Sand and vegetation in the area to be used to accept the fill will be excavated to a nominal depth of 1.4m. This excess spoil will either be used to form visual bunds or as part of the clean fill cap.
- 2. Before commencing works on the C&D material stockpile, the area surrounding Test Pit 27 where slightly elevated levels of arsenic and zinc were detected will be excavated and this material will be tested before being directed to a suitable licensed landfill. It is estimated that this may involve disposal of 20-50 m³ of material. This work is being done out of an abundance of caution as testing indicates the material is still suitable for commercial and industrial land use. After the material is removed, additional samples will be taken from the walls of the excavation that has been created to verify the more contaminated material has been effectively removed.
- 3. Ferrous metals will be removed from the stockpile using powerful magnets as much as reasonably possible.
- 4. Timber will be progressively segregated for recycling as much as reasonably possible as it is an unwanted material in civil work.
- 5. Excavators will extract material from the stockpile and run it through the crushing and screening plant. Two main products will be produced:
  - Smaller sized material, predominantly sand
  - Crushed bricks and concrete.
- 6. Stockpiled materials will be tested to ensure that they meet the quality criteria set out in section 3.4.1
- 7. Once tested, recovered materials will be back filled into the western or new section of the depot under the supervision and control of a Civil Engineer to ensure that the new areas have the required civil properties.

The smaller stockpiles on the western part of the site will be managed as follows:

- 1. Any residual vegetation will be removed.
- 2. The stockpile material will be screened in a waste bucket before being placed in the prepared excavation as fill.
- 3. These works will be supervised by an Environmental Scientist to ensure any asbestos containing materials are removed for off-site disposal to an approved landfill.

#### 3.4.1 Recovered materials quality control

Recovered materials will be set out in weekly stockpiles and assessed to ensure that they meet the quality control criteria below:

- No visible asbestos containing materials.
- No other potentially hazardous material such as chemical drums.
- No soils exhibiting visible staining or unusual odorous emissions.



Given the extensive testing completed by Aurora, and lack of evidence of chemical contamination, no additional chemical testing is proposed unless visual or olfactory evidence suggest testing in warranted.

Testing and confirmation that recovered materials meet the above criteria may take up to one week to turn around if analytical testing is required. On this basis the site might set out several stockpiles of materials awaiting testing.

If recovered materials do not meet the quality control criteria they will be removed from site to an appropriately classified landfill or subjected to further processing.

#### 3.5 Environmental Management of the Site Remediation

The key environmental concerns for the proposed operation are:

- Dust Control
- Noise control
- Management of waste or unexpected finds
- Stormwater Management

#### 3.5.1 Dust Management

The key management approach for dust will be the use of water to wet down stockpiled material before it is handled, processed or tipped. This will be achieved by the use of fixed water sprays and water carts. The water cart will also wet unsealed internal access tracks and roads as required to control dust from vehicle movements.

All concrete entering the crusher will be thoroughly wetted at the inlet conveyor as experience shows this is the most effective method for controlling dust emissions when crushing concrete.

Works relating to excavating or processing fill will be halted at times when high winds make dust control problematic.

Crushing and screening of the C&D material is to be undertaken in the western portion of the premises that lies within a 4m bunded compound which will mitigate any dust emissions.

Senior representatives of HVWW and TRPP will be on-site throughout to ensure that dust is effectively controlled.

#### 3.5.2 Noise Management

The following controls are proposed to limit noise emissions and ensure compliance with the Environmental Protection (Noise) Regulations:

- Crushing and screening equipment will be shielded by a 3 x container high noise wall to the south
  and east. The location is also within the 4m high bunded compound of the transport depot area as
  shown in Figure 5.
- Crushing and screening activities are of a short duration (150 days maximum)
- Works will only be undertaken during the hours 0700 -1800 Monday to Friday.
- All equipment used will be modern and well maintained.
- Noise emissions from the crushing and screening equipment will be assessed by a site survey in the
  first week of operation and any necessary mitigation measures will be implemented to ensure that
  compliance is maintained with the Noise Regulations.
- Any noise complaints will be promptly investigated by HVWW and a suitable response implemented if site works are found to be the cause of the complaint.



#### 3.5.3 Management of Waste and Unexpected Finds

Aurora Environmental's 2023 and 2024 investigations suggest that the stockpiled materials are inert with little or no chemical contamination and a few sparse detections of asbestos cement material in the lower stockpiles on the western side of the site. Based on these findings, it is open to leave the stockpiled material on the surface of the site provided the land use is not changed to a more sensitive use than commercial industrial. Aurora's findings are quite robust as the fill sampling densities were higher than normally adopted for stockpile investigations of this type.

Notwithstanding Aurora's findings, it is not possible to make absolutely definitive statements that no asbestos containing materials are present in the core of the large stockpiles. As a result, prior to works commencing, the following controls will be implemented:

- An unexpected finds procedure will be developed which describes possible hazardous materials, how
  to identify them and what actions to take should suspicious materials be detected.
- All personnel working on the site will undergo an induction which describes the controls in the unexpected finds procedure.
- An experienced environmental scientist will monitor the operations on a regular basis.
- Suitable enclosed bins will be provided on site to store unexpected finds pending off-site disposal.
- In the unlikely event that extensive contamination is detected within the deeper part of the stockpile, work will be halted while a review of work procedures is conducted and if necessary, air monitoring may be implemented.

#### 3.5.4 Stormwater Management

The stockpiled materials have been present on the site for several years without evidence of erosion or contamination. An updated stormwater design for the site has been prepared as part of the Development Approval and this design is based on provided onsite detention for stormwater in accordance with relevant design codes.

If evidence is noted of silty surface flows around work area during or after rainfall, then temporary bunds will be constructed to retain the stormwater in the working area.

#### 3.5.5 Complaint Management

Given the size and location of the site, it is considered unlikely that complaints will occur as a result of the site works. Notwithstanding, HVWW will personally advise neighbours regarding the works and their expected duration and provide contact details for senior representatives in the event that off-site impacts are detected.

HVWW commits to investigate and respond to any complaints within a maximum of 48 hours of them being received and if the manner is serious to respond within 12 hours with a commitment to stop works if necessary to ameliorate the issue.

#### 3.5.6 Project Timing

It is currently anticipated that the remediation works will commence in the second quarter of 2025 and will require 12 -24 months to be completed. Crushing and screening activities will only occur for up to 150 days of this period of time.

#### 3.5.7 Reporting

A detailed report describing the works undertaken, including survey plans showing the location and extent of fill on the site will be prepared and submitted to DWER (Contaminated Sites) in support of having the site reclassified. A copy of this report and the DWER's response will be provided to the Shire of Serpentine Jarrahdale in due course.



# 3.6 Processing equipment for C&D material

This section sets out the processing equipment to be sued on site during the crushing and screening activities and the remediation works.

Table 3-1 Processing Equipment for the C&D material

| Equipment  | Task   | Materials produced   | Testing                             | Recovered Materials - Uses  |
|--|--|--|-------------------------------------|---|
| Excavator - to recover C&D material                | <ul> <li>Pre-sort materials, removing oversize<br/>concrete, steel timber etc.</li> <li>Load the reclaimer with C&amp;D material</li> </ul>  | Oversize materials. Large pieces of steel.                       |                                     | Recovered material may be consigned to a scrap metal merchant.  Timber will be added to the wood waste stockpile. |
| Excavator with concrete pulverizer or rock-breaker | Reduce the size of materials so it can be feed into the reclaimer  |  |                                     |   |
| Reclaimer  | <ul> <li>Size separate materials</li> <li>Remove the small size materials</li> <li>(&lt;50mm fraction)</li> <li>Remove the large size materials and feed it directly into the jaw crusher</li> </ul> | Small size materials<br>(<50mm) to the stockpile                 | Material to be tested<br>before use | Recovered material (sand) is to be used as general fill   |
| Jaw Crusher  | Reduce the size of materials (bricks and concrete) to the specified size (<150mm)  | Scrap steel from magnetic separation using an "Overband Magnet." |                                     | Scrap metal will be consigned to a scrap metal merchant.  |
| Mobile stacker                                     | Stack materials  | Crushed bricks and concrete                                      | Material to be tested<br>before use | Recovered material is to be used as general fill  |
| Frontend loader                                    | Load a truck or an articulated dump truck (moxy)   |  |                                     |   |
| Truck or moxy                                      | Haul materials to site   |  |                                     |   |
| Frontend loader of buildozer                       | Push materials into civil form   |  |                                     |   |
| Roller   | Prepare soil layers to give civil and geotechnical properties to the laydown yard.   |  |                                     |   |

Page 23 Revision 0, January 2025 HVW0LD01



# 3.7 Processing hazards, controls and risks

Table 3-2: Summary of processing hazards, controls and risks

| Processing<br>hazard  | Hazard intensity,<br>likelihood and<br>duration   | Controls  | Risk   |
|---|---|---|--|
| Noise   | <ul> <li>Week-day and day<br/>time operations only.</li> <li>Short term duration         <ul> <li>up to 150 days in<br/>total of crushing and<br/>screening activities</li> </ul> </li> </ul> | <ul> <li>4m high bund wall to the northern, eastern and southern boundary of the premises.</li> <li>A 3x container high noise wall is to be constructed near to the crushing and screening equipment, within the abovementioned bunded area</li> <li>Field survey of noise emissions</li> </ul>   | Low, only one rural<br>residential dwelling<br>within 500m of the<br>site. |
| Dust  | Week-day and day<br>time operations only.   | <ul> <li>Fixed water sprays will be fitted to the reclaimer at the start of the process.</li> <li>A water cart and water spraying system will be used to dampen any dusty materials.</li> <li>4m high bund walls are in place on three sides of the activity area.</li> <li>All concrete entering the crusher will be thoroughly wetted at the inlet conveyor.</li> <li>If in the event that visible dust is moving off-site towards a near neighbour, processing of materials will cease.</li> <li>Works relating to excavating or processing fill will be halted at times when high winds make dust control problematic.</li> </ul> | Low, only one rural<br>residential dwelling<br>within 500m of the<br>site. |
| Hydrocarbon<br>spill  | <ul> <li>Only small volumes<br/>of diesel held in<br/>mobile equipment.</li> <li>Only small volumes<br/>held in refuelling<br/>equipment</li> </ul>   | Equipment and machinery will be inspected regularly for any leaks.  | Low  |
| Asbestos -<br>processing<br>Asbestos in<br>processed<br>materials | Removal of material in known 'hot spots' Materials will be  | <ul> <li>Material stockpiles will be tested for asbestos before use.</li> <li>Materials stockpiles will be tested before use to conform with Class 1 inert material.</li> <li>Non-conforming materials will be consigned to</li> </ul>  | Low  |
| Hazardous<br>contaminants<br>in processed<br>materials            | visually inspected before it is processed.  | <ul> <li>an appropriately classified landfill.</li> <li>An experienced Environmental Scientist will monitor the operations on a regular basis.</li> </ul>   |  |
| Stormwater  | Existing stockpiles have been present for several years. No evidence of erosion or contamination occurring.   | Visual inspection of site drains  If evidence is noted of silty surface flows around work area during or after rainfall, then temporary bunds will be constructed to retain the stormwater in the working area.   |  |



#### 4 Consultation

Consultation with a range of stakeholders has been undertaken in recent time including:

- the Shire of Serpentine Jarrahdale
- DWER Contaminated Sites Branch
- DWER Part V and
- The King Road Brewery



#### 5 References

Bureau of Meteorology (BoM) (2024). *Climate Data Online*. Australian Government, Canberra, Australian Capital Territory. [Online]. Available at: Climate Data Online - Map search (bom.gov.au).

Department of Environmental Regulation (DER) (2015). *Identification and Investigation of acid sulphate soils and acidic landscapes*. Available at: <a href="https://www.wa.gov.au/system/files/2023-04/Identification-and-investigation-of-acid-sulfate-soils-and-acidic-landscapes.pdf">https://www.wa.gov.au/system/files/2023-04/Identification-and-investigation-of-acid-sulfate-soils-and-acidic-landscapes.pdf</a>

Department of Primary Industries and Regional Development (DPIRD) (2024). *Natural Resource Information (WA)*. Government of Western Australia, Perth, Western Australia. [Online]. Available at: <u>Natural Resource Information (WA)</u>.

Environmental Protection Authority. 2005. Separation Distances between Industrial and Sensitive Land Uses. EPA Guidance Statement No. 3. EPA, Perth. Available at: <u>GS3-Separation-distances-270605.pdf</u>

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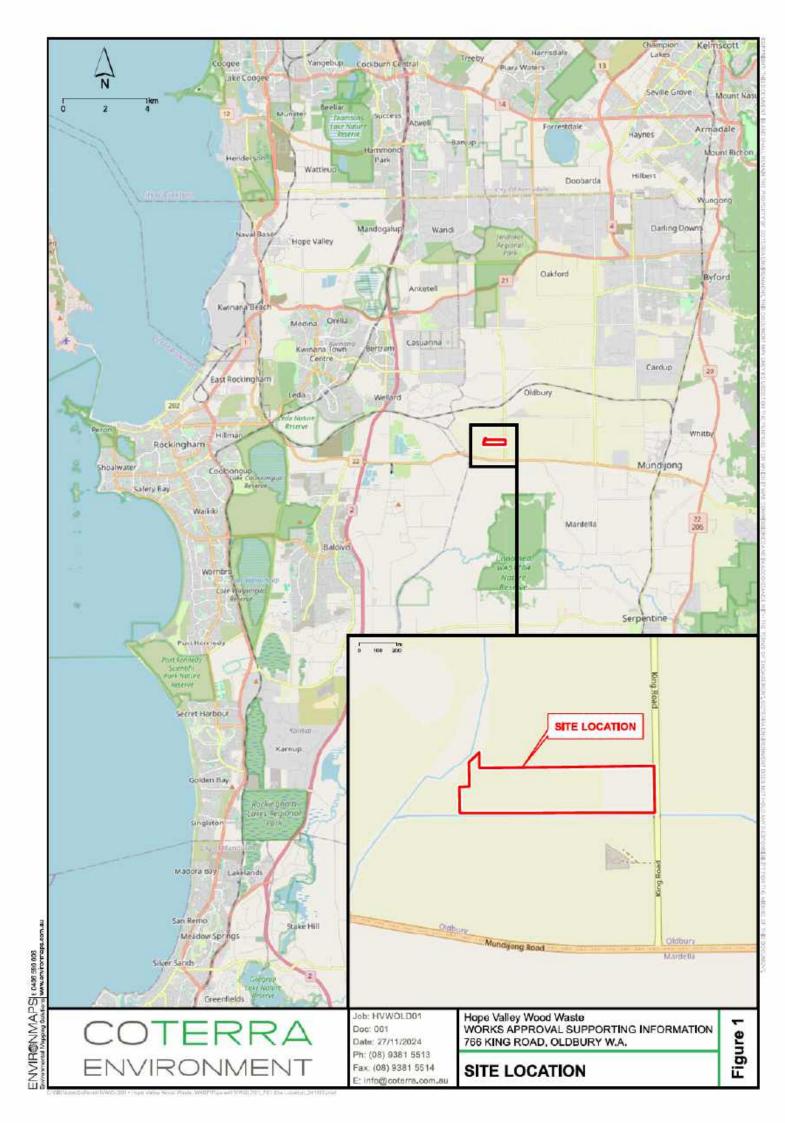
MNG Access (2024). MNG Maps. [Online]. Available at: https://www.mngaccess.com.au/.



# **Figures**



# Figure 1 Site Location



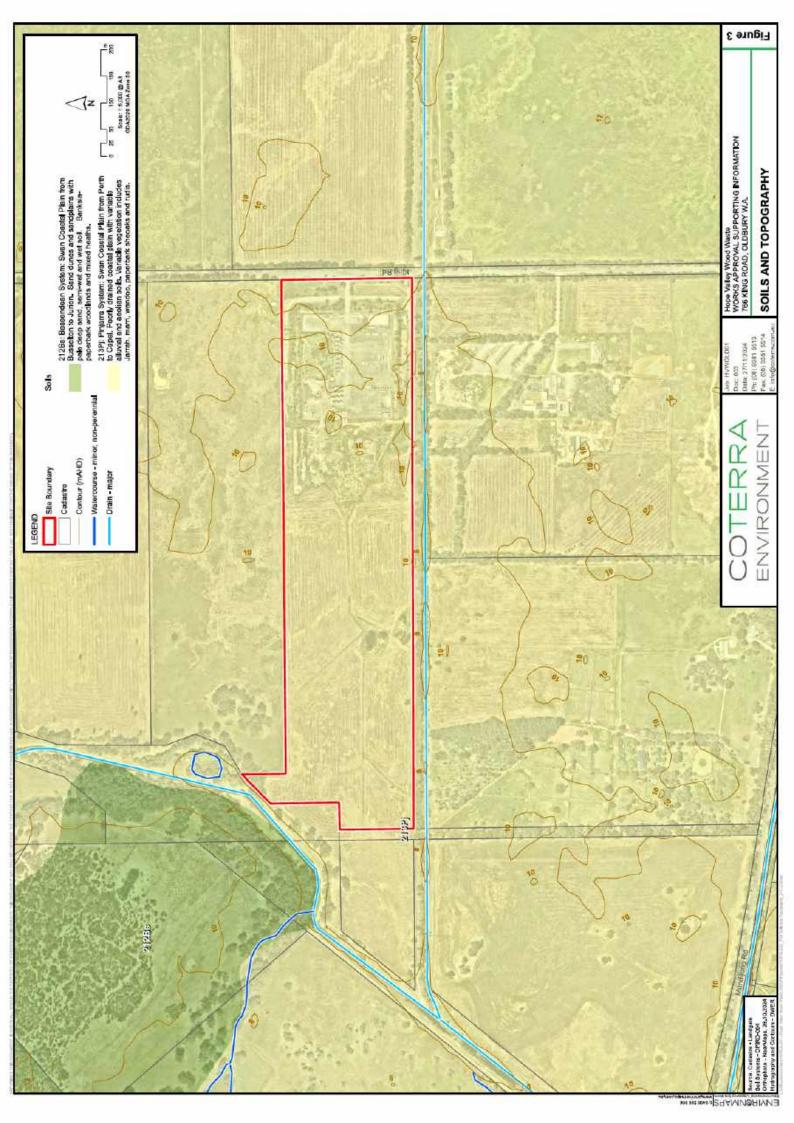


# Figure 2 Site Aerial Image



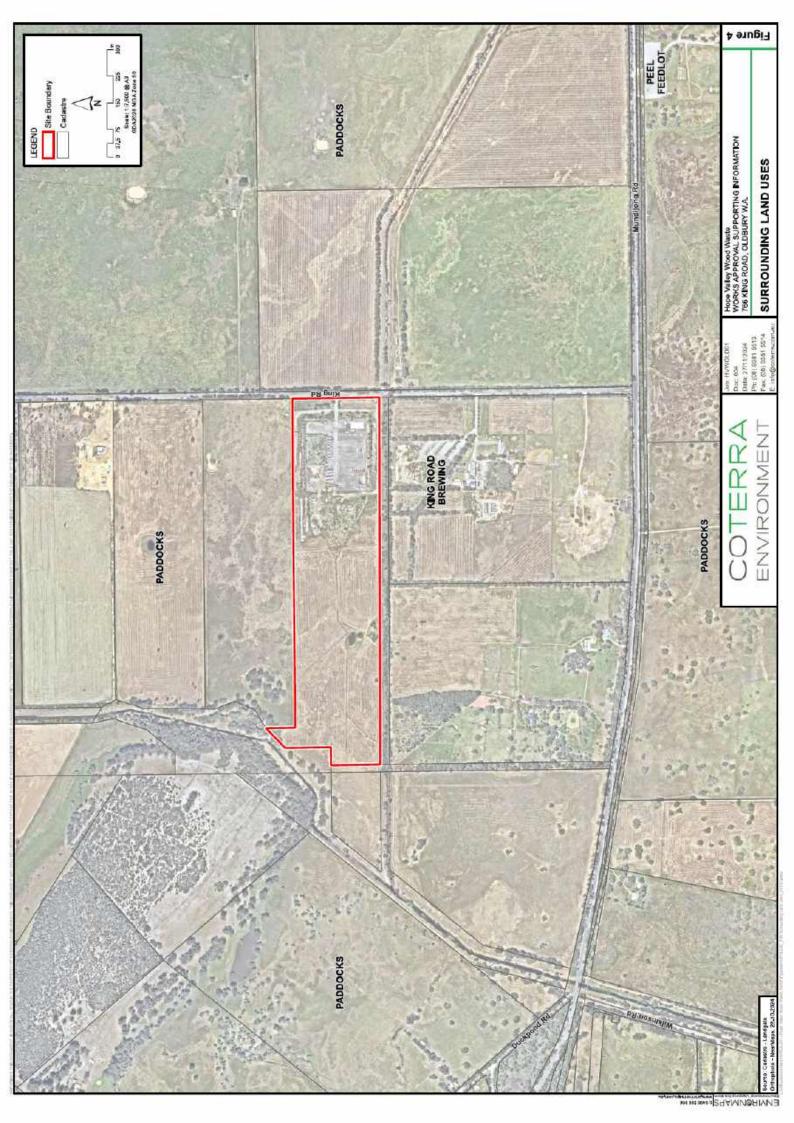


# Figure 3 Site Soil and Topography



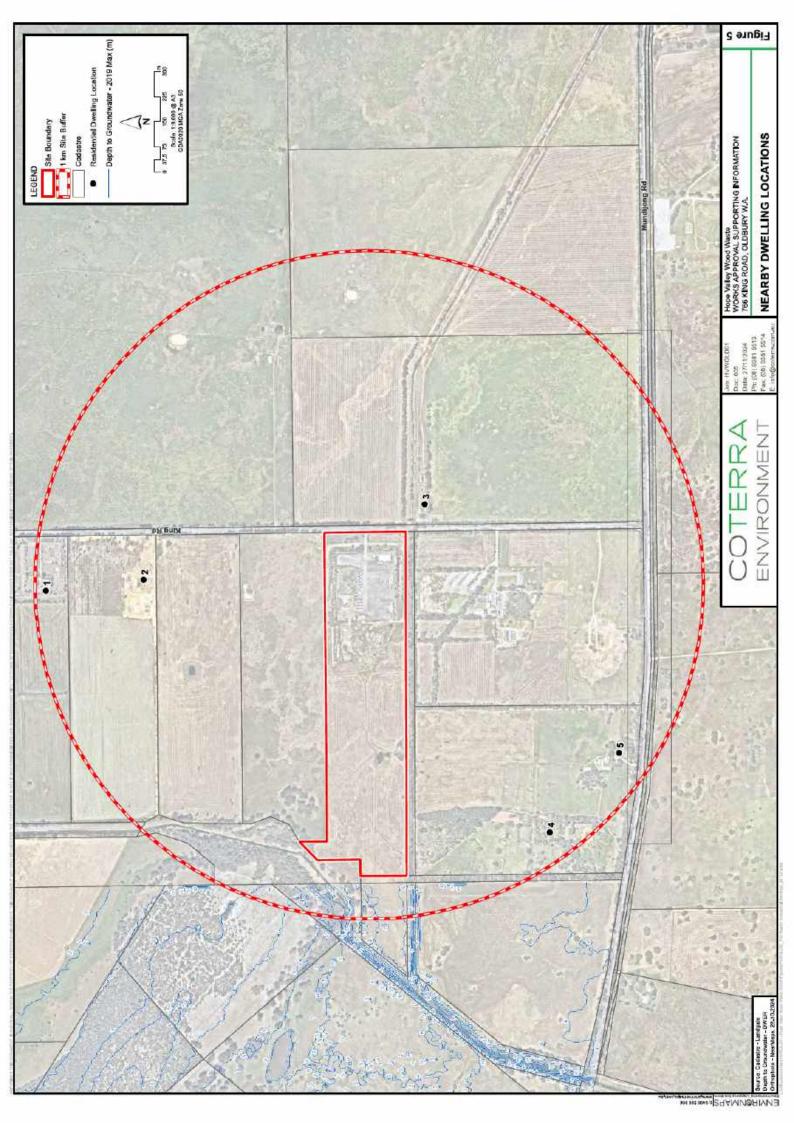


# Figure 4 Surrounding Land Uses



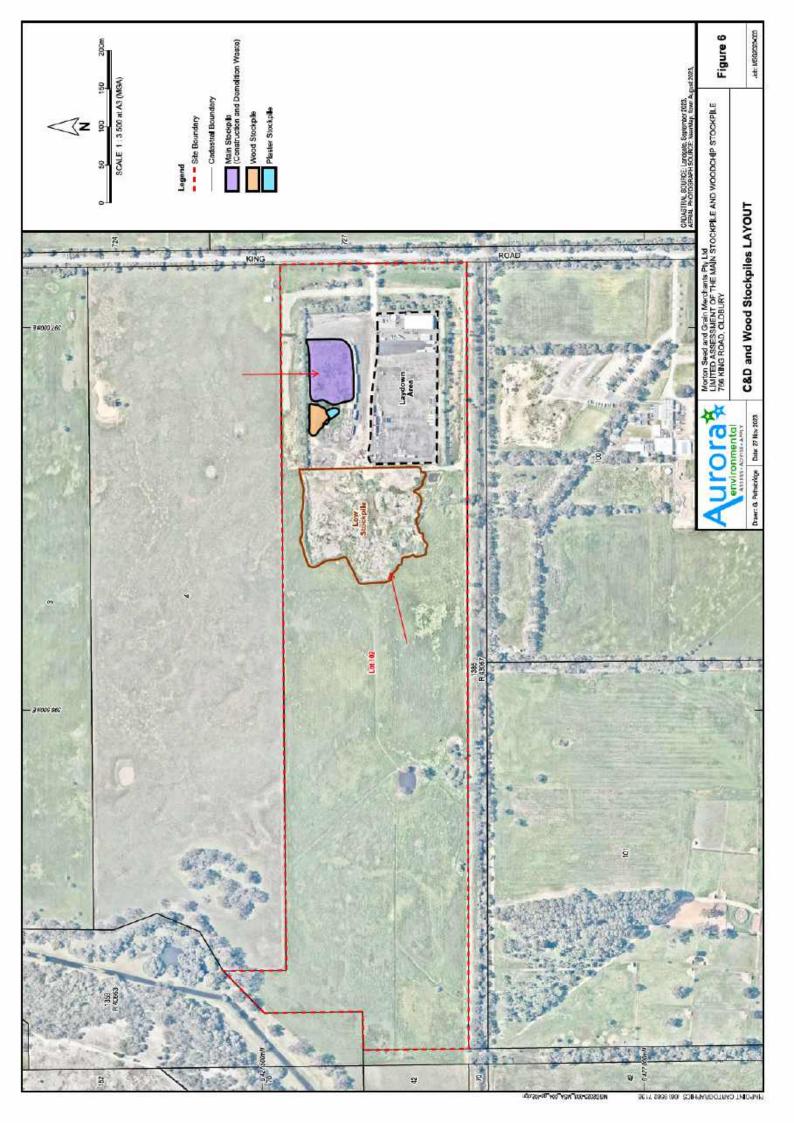


# Figure 5 Nearby Residential Dwellings



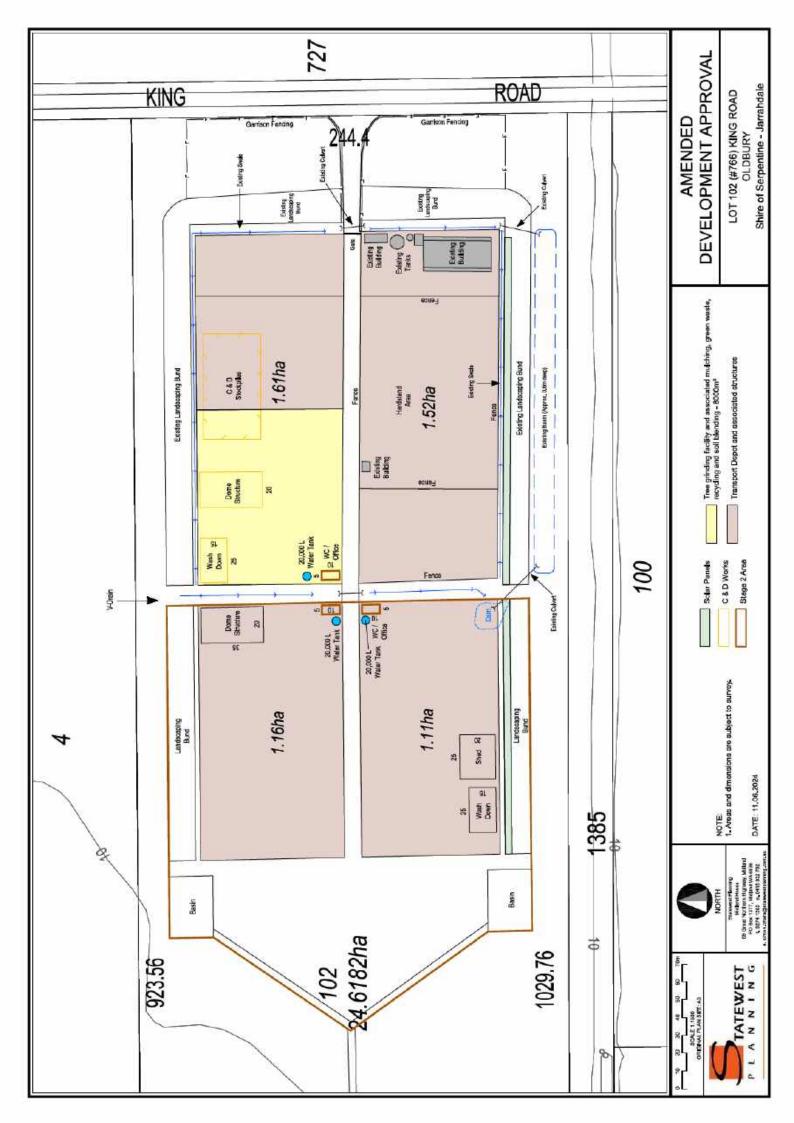


# Figure 6 C&D and Woodwaste Stockpiles





# Figure 7 Remediated Site General Arrangement and Layout





# **Appendix 1** ASIC Current Company Extract

# **Current Company Extract**

Name: HOPE VALLEY WOOD WASTE PTY LTD

ACN: 627 823 876

Date/Time: 11 December 2024 AEST 05:15:44 PM

This extract contains information derived from the Australian Securities and Investments Commission's (ASIC) database under section 1274A of the Corporations Act 2001.

Please advise ASIC of any error or omission which you may identify.

# EXTRACT

| Organisation Details         |                                | Document Number |  |  |
|------------------------------|--------------------------------|-----------------|--|--|
| Current Organisation Details |                                |                 |  |  |
| Name:                        | HOPE VALLEY WOOD WASTE PTY LTD | 0EBV70924       |  |  |
| ACN:                         | 627 823 876                    |                 |  |  |
| ABN:                         | 70627823876                    |                 |  |  |
| Registered in:               | Western Australia              |                 |  |  |
| Registration date:           | 30/07/2018                     |                 |  |  |
| Next review date:            | 30/07/2025                     |                 |  |  |
| Name start date:             | 30/07/2018                     |                 |  |  |
| Status:                      | Registered                     |                 |  |  |
| Company type:                | Australian Proprietary Company |                 |  |  |
| Class:                       | Limited By Shares              |                 |  |  |
| Subclass:                    | Proprietary Company            |                 |  |  |

| Address Details     |            | Document Number |
|---------------------|------------|-----------------|
| Current             |            | 38              |
| Registered address: |            | 6EOM75958       |
| Start date:         | 16/10/2023 | <del></del>     |
| Principal Place Of  |            | 5EEP42258       |
| Business address:   |            |                 |
| Start date:         | 27/10/2021 |                 |

#### **Contact Address**

Section 146A of the Corporations Act 2001 states 'A contact address is the address to which communications and notices are sent from ASIC to the company'.

#### Current

Address: PO BOX 8281, SUBIACO EAST WA 6008

Start date: 15/09/2023

| Officeholders and Other Roles | Document Number  |  |  |
|-------------------------------|--|--|--|
| Director                      | A SSEM MODERN MARKET MA |  |  |
| Name:                         | 5EEC00163  |  |  |
| Address:                      |  |  |  |
| Born:                         |  |  |  |
| Appointment date:             |  |  |  |
| Secretary                     |  |  |  |
| Name:                         | 5EEC00163  |  |  |
| Address:                      |  |  |  |
| Born:                         |  |  |  |
| Appointment date:             |  |  |  |

#### **Share Information**

**Share Structure** 

| Class | Description     | Number issued | Total amount paid | Total amount unpaid | Document<br>number |
|-------|-----------------|---------------|-------------------|---------------------|--------------------|
| ORD   | ORDINARY SHARES | 1000          | 100.00            | 0.00                | 0EBV70924          |

#### Members

Note: For each class of shares issued by a proprietary company, ASIC records the details of the top twenty members of the class (based on shareholdings). The details of any other members holding the same number of shares as the twentieth ranked member will also be recorded by ASIC on the database. Where available, historical records show that a member has ceased to be ranked amongst the top twenty members. This may, but does not necessarily mean, that they have ceased to be a member of the company.

Name: MORTON INTERNATIONAL PTY LTD

ACN: 127 864 242

Address:

| Class | Number held | Beneficially held | Paid  | Document number |
|-------|-------------|-------------------|-------|-----------------|
| ORD   | 1000        | no                | FULLY | 5EEO30464       |

#### **Documents**

Note: Where no Date Processed is shown, the document in question has not been processed. In these instances care should be taken in using information that may be updated by the document when it is processed. Where the Date Processed is shown but there is a zero under No Pages, the document has been processed but a copy is not yet available.

| Date received | Form type   | Date processed | Number of pages | Effective date | Document<br>number |
|---------------|---|----------------|-----------------|----------------|--------------------|
| 09/10/2023    | 484B Change To Company<br>Details Change Of Registered<br>Address | 09/10/2023     | 2               | 15/09/2023     | 6EOM7595<br>8      |
| 10/04/2024    | 991 Notification Of Location<br>Of Books Stored On<br>Computer    | 12/04/2024     | 2               | 10/04/2024     | 032022435          |

<sup>\*\*\*</sup>End of Extract of 2 Pages\*\*\*



### Appendix 2 Certificate of Title for 766 King Road, Oldbury

WESTERN



TITLE NUMBER

Volume

Folio

1931

434

#### RECORD OF CERTIFICATE OF TITLE

UNDER THE TRANSFER OF LAND ACT 1893

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.



#### LAND DESCRIPTION:

LOT 102 ON DIAGRAM 82617

#### REGISTERED PROPRIETOR:

(FIRST SCHEDULE)

THOMAS ROAD PROPERTY PTY LTD OF 766 KING ROAD OLDBURY WA 6121

(T P543944) REGISTERED 9/5/2023

#### LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:

(SECOND SCHEDULE)

O146108 MEMORIAL. CONTAMINATED SITES ACT 2003 REGISTERED 8/5/2019.

Warning: A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required.

Lot as described in the land description may be a lot or location.

-----END OF CERTIFICATE OF TITLE------

#### STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: 1931-434 (102/D82617)

PREVIOUS TITLE: 1898-131

PROPERTY STREET ADDRESS: 766 KING RD, OLDBURY.

LOCAL GOVERNMENT AUTHORITY: SHIRE OF SERPENTINE-JARRAHDALE



# **Appendix 3** Environmental Features Memorandum





ENVIRONMENT

Level 1, 98 Colin Street West Perth WA 6005

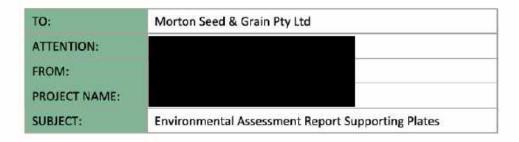
T (08) 9381 5513

www.coterra.com.au info@coterra.com.au

. . . . . .

Date: 12 December 2024

#### APPENDIX 3



Further to the information provided in the Environmental Assessment Report (Coterra, 2024) prepared for Lot 102 (No. 766) King Road, Oldbury (the site), please find a summary memorandum of the relevant environmental features mapped across the site.

Key environmental features include:

- A portion of the site is mapped as an Environmentally Sensitive Area (Plate 1) this mapping does
  not impede of the development area
- A Threatened Ecological Community (TEC) is mapped over part of the site (Plate 2) on-ground conditions (vegetation) of the site do not correlate to any TECs
- The site does not contain any Threatened or Priority flora or fauna records (Plate 3; Plate 4)
- The site does not contain any known Aboriginal or other heritage sites (Plate 5; Plate 6)
- The site is not within a Public Drinking Water Source Area (PDWSA; Plate 7)
- A portion of the site is mapped as containing a Conservation Category Wetland (CCW); however this
  area will not impede on the development area. The remainder of the site is mapped as a Multiple
  Use Wetland (MUW; Plate 8)
- The Acid Sulphate Soil (ASS) risk at the site is Moderate to Low risk (Plate 9)

No constraints have been identified that need to be avoided in the site's remediation plan.





Plate 1: Environmentally Sensitive Areas





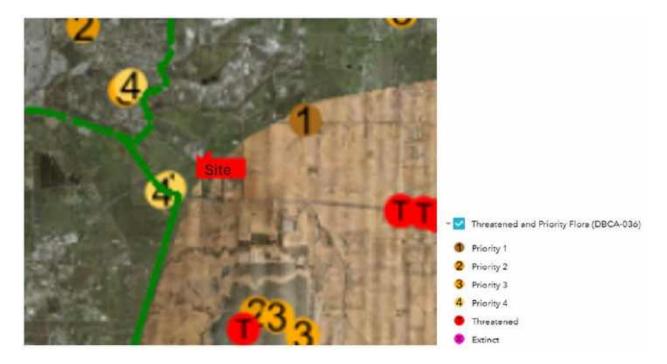


Plate 2: Threatened Ecological Communities





Plate 3: Threatened and Priority Fauna



**Plate 4: Threatened and Priority Flora** 



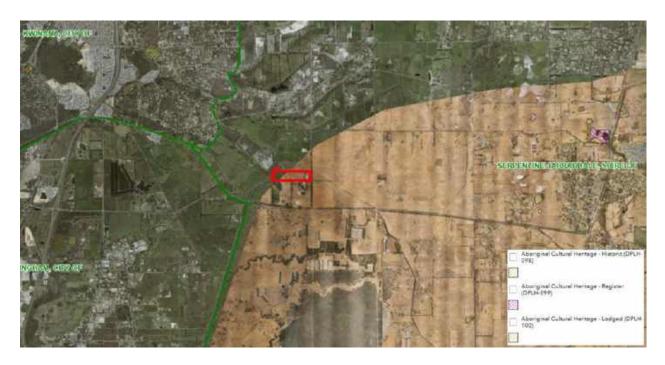


Plate 5: Aboriginal Heritage Sites

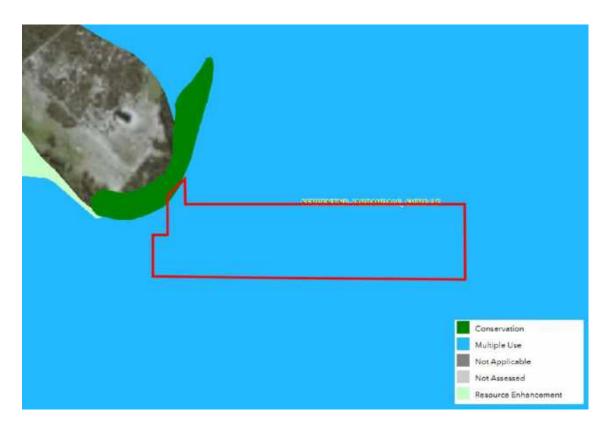


**Plate 6: Other Heritage Sites** 



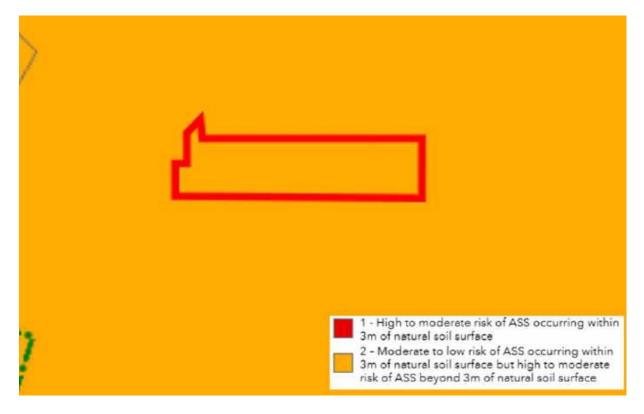


Plate 7: Public Drinking Water Source Areas





**Plate 8: Hydrological Features** 



**Plate 9: Acid Sulphate Soils** 

Source: Landgate, 2024 MNG, 2024



# Appendix 4 Aurora Environmental 2024, Limited Assessment of the Main Stockpile and Wood Stockpile





Dilhorn House, 2 Bulwer Street
Perth WA 6000
T (08) 9227 2600
F (08) 9227 2699

15 March 2024

Morton Property Trust 950 Rockingham Road, Wattleup WA 6166

Attention: Jonnie Morton



RE: 766 King Road, Oldbury: Limited Assessment of the Main Stockpile and Wood Stockpile

This letter presents the findings from works undertaken by Aurora Environmental (Aurora) for an assessment of the main stockpile and woodchip stockpile at 766 King Road, Oldbury (the Site). The Site's location is presented in Figure 1. The assessment was limited to the main stockpile of construction and demolition (C&D) waste materials and the wood stockpile as defined in Figure 2. Based on previous limited inspections by Aurora, the main stockpile appeared to contain inert material, mainly brick and concrete rubble and the wood stockpile exclusively contained timber materials.

#### INTRODUCTION AND BACKGROUND

Morton Property Trust purchased the Site aware of its environmental constraints with a view to using the Site for plant and equipment laydown and storage (i.e., commercial / industrial purpose). During the Site's previous ownership period, uncontrolled C&D waste materials were imported to the Site by a former tenant. It is for this reason that the Site was classified under the Contaminated Sites Act 2003 (CS Act) as 'Possibly contaminated – investigation required' by the Department of Water and Environmental Regulation (DWER). There was a previous development application made to the Shire of Serpentine – Jarrahdale (the Shire) to manage the C&D waste materials and remediate the Site, predominantly through off-site disposal.

The Shire approved the works subject to conditions. These included the development of a suitable remediation plan and environmental management plans acceptable to the DWER and the Department of Health (DoH) and the DWER issuing a Works Approval and Category 13 and 62 licences under the Environmental Protection Act 1986 (EP Act).

Prior to Morton Property Trust purchasing the Site, Aurora was involved in discussion with the Shire and the DWER regarding possible alternative management of C&D waste materials including through options for onsite containment instead of the previously proposed offsite disposal. The DWER and Shire indicated that a new development application process would be required and that similar conditions would likely apply, but it was considered that onsite management could be supported if suitable controls and regulatory approvals were in place.

Prior to Morton Property Trust purchasing the Site, Aurora was involved in discussion with the Shire and the DWER regarding possible alternative management of C&D waste materials including through options for onsite containment instead of the previously proposed offsite disposal. The DWER and Shire indicated that a new development application process would be required and that similar conditions would likely apply, but it was considered that onsite management could be supported if suitable controls and regulatory approvals were in place.

It is understood that Morton Property Trust wished to characterise the main stockpile to assess potential management options for the material and to confirm the wood stockpile doesn't contain other materials, including C&D waste. Morton Property Trust has informed Aurora that the constructed hardstand would include a 0.5m thick surface capping layer of imported clean fill to provide a compacted and suitable surface for machinery and equipment laydown.

A survey was completed of the Site in 2020 and the volume of the main stockpile was estimated to be 19,466m<sup>3</sup>. The wood stockpile and an adjoining stockpile of plaster waste were estimated to have a combined volume of 5,638m<sup>3</sup>.

Aurora previously completed a similar assessment (Aurora, 2023) of the low stockpiles of C&D waste located to the west and southwest of the main stockpile. This letter report doesn't re-present the assessment of the low stockpiles.

#### 1.1 OBJECTIVES

#### Main Stockpile

The objective was to assess the potential for the main stockpile material to be contaminated and understand the suitability of the material to be crushed and used to create hardstand at the Site. The assessment is considered warranted as the main stockpile material appears to be consistent with C&D waste, the material may contain asbestos or other potential sources of contamination.

#### Wood Stockpile

The objective was to visually assess the potential for the wood stockpile to contain potential C&D waste and other sources of contamination prior to the material being relocated to the bund walls surrounding the Site. The assessment is considered warranted as the origins of the wood stockpile are unknown.

#### 1.2 SCOPE OF WORK

#### Main Stockpile

The following scope of work was undertaken.

Aurora supervised the installation of 30 test pits excavated into the main stockpile (excavator and operator were provided by Morton Property Trust). The test pits extended to a maximum depth of 3.0m below the stockpile surface at safely accessible locations. A soil sample was collected from each soil profile encountered in each test pit at a minimum rate of one sample per vertical metre or where there was a distinct change in the soil profile. A total of 50 soil samples (including quality control samples) were selected for laboratory analysis of organochlorine pesticides (OCPs), Total Recoverable Hydrocarbons (TRH), benzene, toluene, ethyl benzene, xylenes, and naphthalene (BIEXN) and eight heavy metals. These analytes are

contaminants of potential concern (COPC) for fill of unknown origin, as identified by the DWER (2021).

The contents of the test pits were logged and photographed. Any suspected asbestos Containing Material (ACM) or evidence of other potential forms of contamination, such as drums, batteries, chemicals or malodorous materials or copper chrome arsenate (CCA) treated timber were noted. Two samples of fibre cement material were analysed for asbestos identification.

This letter report was prepared to document the assessment of analytical results to health and ecological assessment criteria for the commercial / industrial land use and clear concluding statements on the presence of potential for contamination in the main stockpile and the suitability for it to be retained onsite to construct hardstand.

#### Wood Stockpile

Aurora supervised the installation of eight test pits excavated into the wood stockpile (excavator and operator were provided by Morton Property Trust). The test pits extended to a maximum depth of 3.0m below the stockpile surface at safely accessible locations. The wood was visually assessed for the presence of C&D waste and other potential sources of contamination, including CCA treated timber and each test pit was photographed. No samples were taken as part of this assessment.

Preparation of this letter report to document the visual assessment and clear concluding statements on the presence of potential contamination sources within the stockpile and the suitability of the material to be relocated to the bund walls along the Site's boundaries.

#### METHODOLOGY AND OBSERVATIONS

This section describes the activities undertaken and observations made, whilst undertaking the test pitting investigations into the main and wood stockpiles. On 24 October to 26 October 2023, an Aurora Environmental Scientist undertook the investigative works. The Environmental Scientist had received in-house training on asbestos material identification by a Licensed Asbestos Assessor (LAA) and previously conducted similar assessments. Prior to the commencement of the test pitting, an initial inspection of the main and wood stockpile was completed. During the inspection, the surface of the main stockpile was overgrown with weeds and the wood stockpile was noted to dissect the plaster stockpile located south of the wood stockpile and southwest of the main stockpile. Photographs of the stockpiles and the general layout of the Site are included in Attachment 1.

#### Main Stockpile

The 30 test pits were mechanically excavated using a 20t excavator. The locations of the test pits are presented in Figures 3 and 4. The test pits were positioned with the aim of providing even coverage of the stockpile with the limitation of safely being able to access the slopes and portions of the top. The test pit depths extended to a maximum of 3m below the surface of the stockpile. It was not possible to safely extend test pits through the entire profile of the stockpile as its maximum thickness is approximately 6-8m. The logs from the test pit installation for the main stockpile are presented in Attachment 2 and contain photographs of the materials encountered in the test pits.

The main stockpile generally contained sandy soil and a variety of C&D waste materials. The fill material within the main stockpile comprised grey / brown sand, fine grained, poorly graded, homogenous.

A variety of waste materials were observed consisting of mostly inert C&D wastes (concrete, brick, metal, wood and tile) and other domestic waste, such as textiles and plastics. Other wastes noted in the inspection included isolated fragments of potential ACM (PACM) and consequently representative samples were collected. No staining or odours indicating contamination were noted in the test pits. There were no items such as batteries, drums, CCA treated timber observed in the test pits or across the surface.

PACM was observed in two test pit locations. All PACM fragments observed during the investigation were fibre cement fragments, with no bulk amounts of sheeting observed. Fragments of PACM were observed in TP10 and TP25. Two representative bulk asbestos samples were collected from PACM encountered in the two test pits described above and submitted for laboratory analysis for asbestos identification.

Soil samples for laboratory analysis were collected from each test pit based on visual observations made within the soil profile during excavation. Samples were placed directly into laboratory supplied glass jars and stored in a cooled esky until transfer to the laboratory. Samples were transported with accompanying Chain of Custody (CoC) documentation to a National Association of Testing Authorities (NATA) accredited laboratory for analysis. All samples from the fill material encountered in the main stockpile were submitted for OCPs, TRH, BIEXN and heavy metals. Three pairs of duplicate and triplicates were submitted for quality control purposes. One sample (TP27\_1.5-2.0) was subjected to follow up analysis for chromium (VI).

#### Wood Stockpile

During the inspection of the wood stockpile, majority of the wood material appeared to be from former buildings and appeared to be a mixture of wooden beams and chipboard with some painted material. It was noted in the southeastern portion of wood stockpile there was plaster noted at approximately 3m below the surface of the stockpile at test pit locations WC01 and WC07 (refer to Photographs 2 and 8). This was most likely due to the wood stockpile being placed onto the toe of the adjoining stockpile of plaster waste located south of the wood stockpile. There were no staining or odours noted within the test pits nor was there any CCA treated timber observed.

#### ASSESSMENT CRITERIA

The adopted assessment criteria were based on future commercial/industrial land use at the Site. On this basis, analytical results were compared to the following assessment criteria, as presented in Schedule Bl of National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 1999) and the DWER Assessment and Management of Contaminated Sites (2021).

For the purposes of the main stockpile assessment, the following assessment criteria was applied:

Ecological Investigation Levels (EIL)/Ecological Screening Levels (ESL) — Commercial/Industrial land use.

Health Investigation Levels (HIL)/Health Screening Levels (HSL) - Commercial/Industrial land use.

Soil analytical data from the assessment of the low stockpiles on the Site (Aurora, 2023) were used to derive the site-specific EILs.

#### 4. ANALYTICAL RESULTS

Analytical results for the main stockpile are presented in Tables 1-3. Laboratory analytical certificates and CoC documentation are contained within Appendix 4.

#### 4.1 HEAVYMETALS

Concentrations of heavy metals were generally above the laboratory Limit of Reporting (LOR) and / or the adopted assessment criteria. Tabulated metals results are included in Table 1 and summary of the results are included below. The laboratory confirmed results for copper, arsenic and chromium (total) in sample TP27 1.5-2.0.

Concentrations of arsenic ranged from below the IOR of 2mg/kg within TP24\_1.4-1.5 to 280mg/kg within TP27\_1.5-2.0. The concentration of arsenic within sample TP27\_1.5-2.0 was the only result above the EIL for Commercial/Industrial land use.

Concentrations of cadmium ranged from below the LOR of 0.1mg/kg in several samples to 1.8mg/kg within sample TP22\_0-0.1. No concentrations of cadmium were above the adopted assessment criteria.

Concentrations of copper ranged from 2.2mg/kg within TP08\_0-0.1 to 140mg/kg within TP27\_1.5-2.0. The concentration of copper within sample TP27\_1.5-2.0 was the only result above the EIL for Commercial/Industrial land use.

Concentrations of chromium (total) ranged from 5.1mg/kg within TP07\_2.9-3.0 and TP24\_1.4-1.5 to 490mg/kg within TP27\_1.5-2.0. The concentration of chromium (total) within sample TP27\_1.5-2.0 was the only result above the EIL for Commercial/Industrial land use. Additional analysis for chromium (IV) was requested on 17 November 2023 for sample TP27\_1.5-2.0 due to concentrations of chromium (total), copper and arsenic being above the EIL and jointly they indicated that the soil may have been impacted by CCA and therefore the potential presence of chromium (VI). The concentrations of chromium (IV) within TP27\_1.5-2.0 was below the IOR(1mg/kg).

Concentrations of lead ranged from 3.1mg/kg within TP08\_0-0.1 to 80mg/kg within TP22\_0-0.1. No concentrations of lead were above the adopted assessment criteria.

Concentrations of mercury ranged from 0.03mg/kg within TP08\_0-0.1, TP08\_0.4-0.5, TP09\_0.8-1.0, TP10\_1.4-1.5, TP24\_0.8-1.0, TP24\_1.4-1.5 and TP30\_2.4-2.5 to 1.2mg/kg within TP01\_1.8-1.9. No concentrations of mercury were above the adopted assessment criteria.

Concentrations of nickel ranged from below the IOR of 1mg/kg within TP06\_0.4-0.5, TP08\_0.4-0.5, TP09\_0.8-1.0 and TP30\_2.4-2.5 to 4.5mg/kg within TP12\_0-0.1. No concentrations of nickel were above the adopted assessment criteria.

Concentrations of zinc ranged from below the LOR of 5mg/kg within TP24\_1.4-1.5 to 630mg/kg within TP22\_0-0.1. Concentrations of zinc were above the above the EIL for Commercial/Industrial land use within TP01\_1.8-1.9, TP04\_0.0-0.1, TP04\_1.4-1.5, TP14\_0.8-1.0, TP19\_2.4-2.5, TP20\_0-0.1, TP21\_0.4-0.5, TP22\_0-0.1, TP23\_0.4-0.5 and TP26\_0.8-1.0.

The median zinc concentration was 115mg/kg, approximately half of the EIL(210mg/kg). The standard deviation was 136 mg/kg, approximately 65% of the EIL and the maximum result of 630mg/kg was 300% of the EIL.

#### 4.2 PETROLEUM HYDROCARBONS

Tabulated TRH and BTEXN results are presented in Table 2, Attachment 3.

All concentrations of TRH F1 and F2 and BIEXN generally below the IOR. Concentrations of TRH F3 above the IOR ranged up to 480mg/kg) within TP12\_1.4-1.5. Concentrations of TRH F4 above the IOR ranged up to 190mg/kg, also in TP12\_1.4-1.5. No adopted assessment criteria for TRH and BIEXN were exceeded.

#### 4.3 ORGANOCHLORINE PESTICIDES

Tabulated OCP results are included in Table 3. Attachment 3.

Concentrations of all OCPs were found to be below the laboratory LOR, with the exception of dieldrin, endosulfan I, and chlordanes (total). The maximum detectable concentration was of dieldrin at 0.68mg/kg within TP05\_1.8-2.0. No adopted assessment criteria were exceeded.

#### 4.4 BULK ASBESTOS IDENTIFICATION

The two representative samples of fibre cement PACM were found to not contain asbestos by the laboratory. The results from the laboratory analysis are presented in Attachment 4.

#### DISCUSSION

#### Main Stockpile

The objectives of the sampling were to assess the potential for the main stockpile material to be contaminated and provide appropriate management options for the stockpiled material. The soil sampling conducted found the stockpile contained low levels of petroleum hydrocarbons and OCPs below commercial/industrial assessment criteria.

Whilst concentrations of most heavy metals were also below adopted commercial/industrial assessment criteria, zinc, arsenic, chromium (total) and copper concentrations were identified in soil samples in at least one sample above the site-specific commercial/industrial EIL. There were nine out 47 samples with a zinc concentration above the commercial/industrial EIL. The presence of zinc in soil is inferred to result from galvanised metal materials in the C&D waste materials and has been encountered by Aurora previously in similar materials on other sites. The distribution of samples with elevated zinc concentrations were considered further by Aurora. It was noted that TP01, TP18, TP19, TP20, TP21 were located in the northeastern portion of the main stockpile and TP04, TP22, TP23 and TP26 were located in the southwestern portion. The type of materials encountered in these test pits were generally consistent with materials from elsewhere in the stockpile. The presence and concentrations of zinc in the soil within the main stockpile is not considered to pose a potentially

unacceptable risk to terrestrial ecological receptors in the scenario when the material is re-used to construct a hardstand area for plant and equipment laydown due to the predicted future absence of ecological receptors. However, it is considered that the presence of zinc in the soil (in the stockpile) and the potential for zinc to leach from soil and metal materials and impact groundwater quality should be further assessed before completing an assessment of the material's suitability to be retained onsite and used for a constructed hardstand area.

The soil samples from TP27\_1.5-2.0 contained concentrations of arsenic, chromium (total) and copper above the commercial industrial EILs which initially indicted the soil may have been impacted with CCA from burnt or damaged CCA-treated timber. Although there was no clear evidence of ash or CCA-treated timber from TP27 and the underlying sample (TP27\_2.4-2.5) contained much lower concentrations, it was decided to check the results and analyse TP27\_1.5-2.0 for chromium (VI). The absence of chromium (VI) in this sample and other evidence suggests that the presence of arsenic, chromium (total) and copper is not clearly related to a source of CCA. TP26 and TP28 were located relatively close to the west and east of TP27. Notwithstanding this, its considered prudent to undertake some further targeted investigation around TP27 for copper, chromium (total VI) and arsenic to complete the assessment of this portion of the main stockpile. The laboratory also confirmed the reported concentrations of arsenic, chromium (total) and copper in TP27 1.5-2.0.

During the investigation, the only two PACM fragments found within test pits were confirmed to not contain asbestos through laboratory analysis. It is considered that the main stockpile is not contaminated with asbestos. However, due to the unknown origin of the material located within the main stockpile, its size and majority of the material being C&D waste, it is plausible that ACM may be encountered within the stockpile during movement of material. Consequently, appropriate supervision and management should be conducted to identify and remove any ACM which may be present.

#### Wood Stockpile

During the investigation, there was no observation of potential sources of contamination in the wood stockpile, including the presence of treated timber or C&D waste materials noted within the wood stockpile. The material is suitable to be used to extend bunding around the perimeter of the Site. However, this should be conducted with awareness that any materials other than untreated wood/timber which are found should be inspected and assessed for their potential to be a source of contamination.

#### CONCLUSION AND RECOMMENDATIONS

Based on the results of the investigation works undertaken, the following conclusions are made.

The main stockpile does not appear to contain asbestos, petroleum hydrocarbons or OCPs at levels which would constitute contamination on a commercial/industrial site. Limited soil samples contain elevated concentrations of zinc, copper, chromium (total) and arsenic above commercial/industrial ELs. However, these may not necessarily represent an unacceptable risk to ecological receptors and make the materials unsuitable to be retained onsite and re-used to construct a hardstand area (under a 0.5m clean fill capping layer). Further targeted soil investigation and a groundwater investigation are considered prudent to complete assessment of the stockpile materials and their suitability to be reused in this manner.

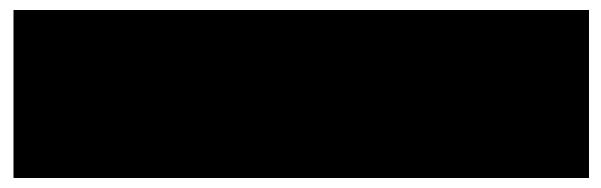
The wood stockpile appears to contain only inert wood and timber materials and therefore is suitable to be re-located on the Site.

It is recommended that further targeted soil investigation is conducted in the northeastern and southwestern portions of the main stockpile and within the vicinity of TP27 in order to collect and assess additional data on the presence, leachability and distribution of heavy metals and support final assessment of the material's suitability to be re-used to construct a hardstand area on the Site.

Further to the above, as the main stockpile has been located at the Site for approximately four to five years and concentrations of zinc are above the EIL throughout the main stockpile, a groundwater investigation is recommended to assess whether groundwater in the vicinity of the main stockpile has been impacted.

During movement of the main stockpile and the wood stockpile, it is recommended there remains awareness of the potential for asbestos and other possibly contaminated materials to be uncovered given the practical limitations to the investigation undertaken. It is recommended that disturbance of these stockpiles is managed under the environmental management plan that Aurora has previously recommended be prepared and implemented for the low stockpiles which are present at the Site and are known to contain minor amounts of asbestos.

For and on behalf of Aurora Environmental,



#### Figures:

- 1. Site Locations
- 2. Site Layout
- 3. Main Stockpile Test Pit Locations
- 4. Wood Stockpile Test Pit Locations

#### Attachments:

- 1. Photograph Log
- 2. Test Pit Logs
- 3. Tabulated Analytical Results
- 4. Laboratory Reports

Limited Assessment of the Main Stockpile and Woodchip Stockpile

#### REFERENCES

Aurora (2023) 766 King Road, Oldbury: Limited Stockpile Assessment. Letter dated 27 September 2023.

Department of Water and Environmental Regulation (2021a). Assessment and Management of Contaminated Sites – Contaminated Sites Management Series.

Department of Water and Environmental Regulation (2021b). Managing Asbestos at Construction and Demolition Waste Recycling Facilities.

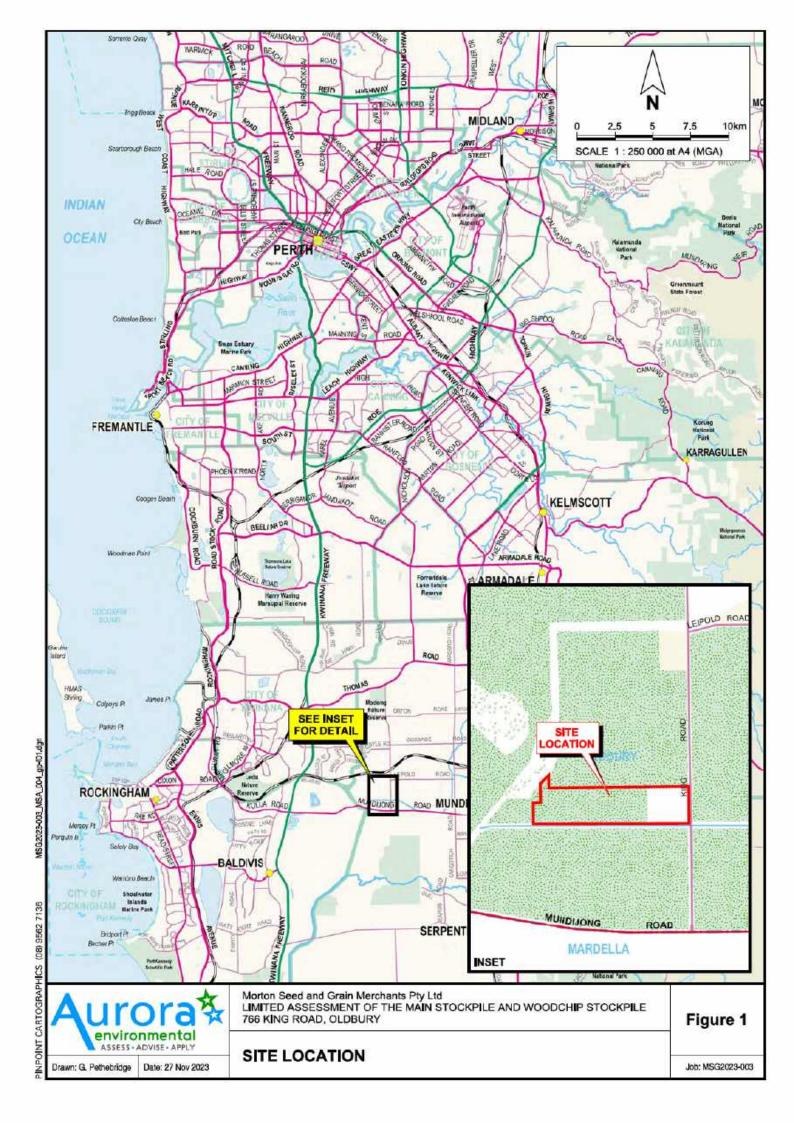
National Environment Protection Committee (1999). National Environmental Protection (Assessment of Site Contamination) Measure, as amended 2013.

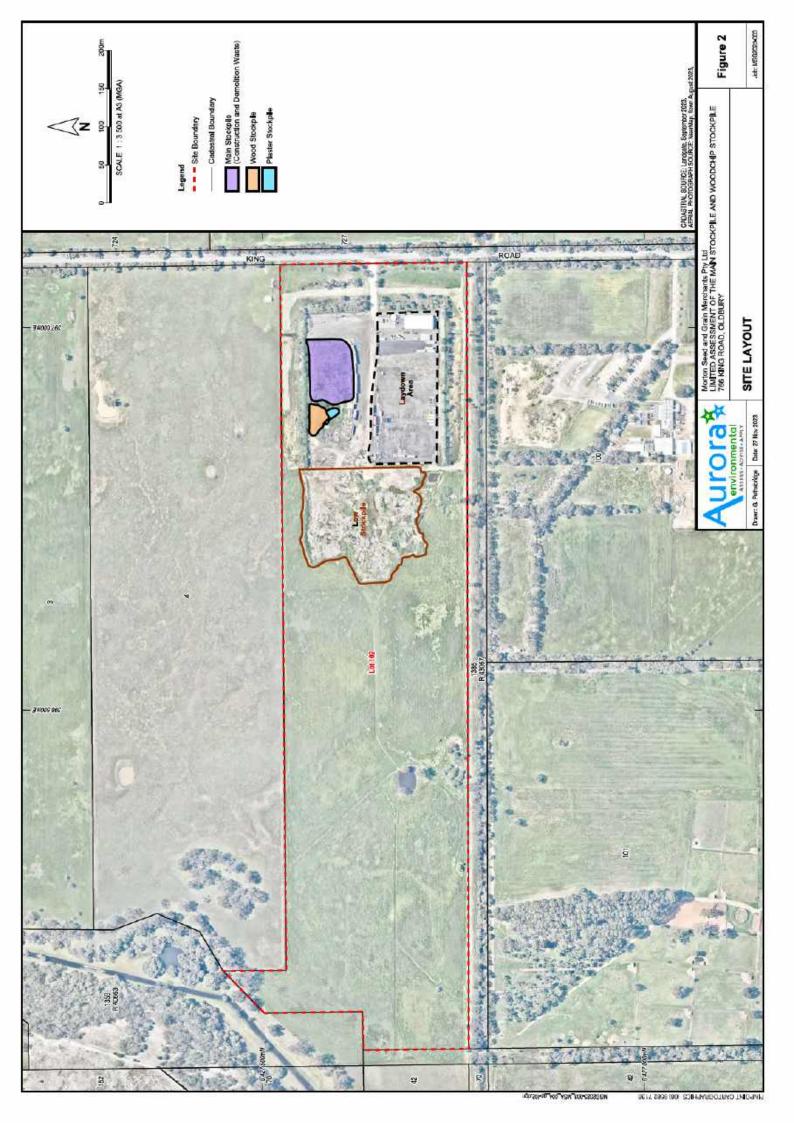
#### DISCLAIMER

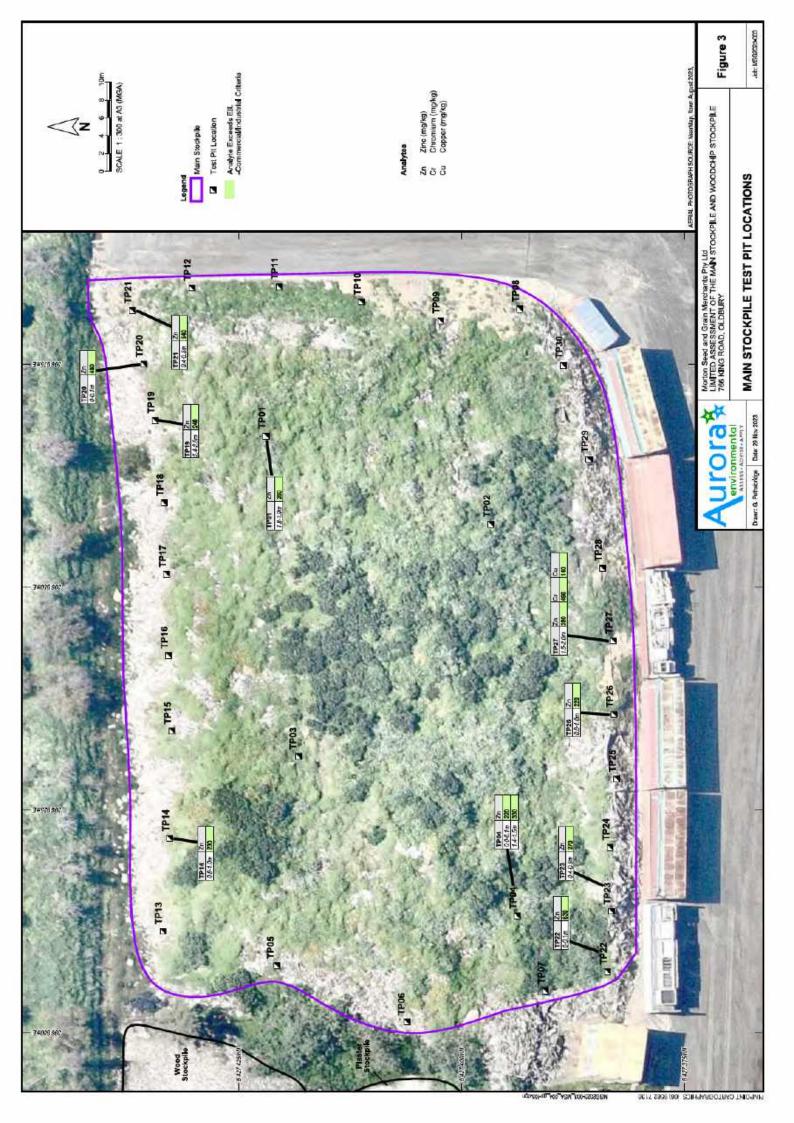
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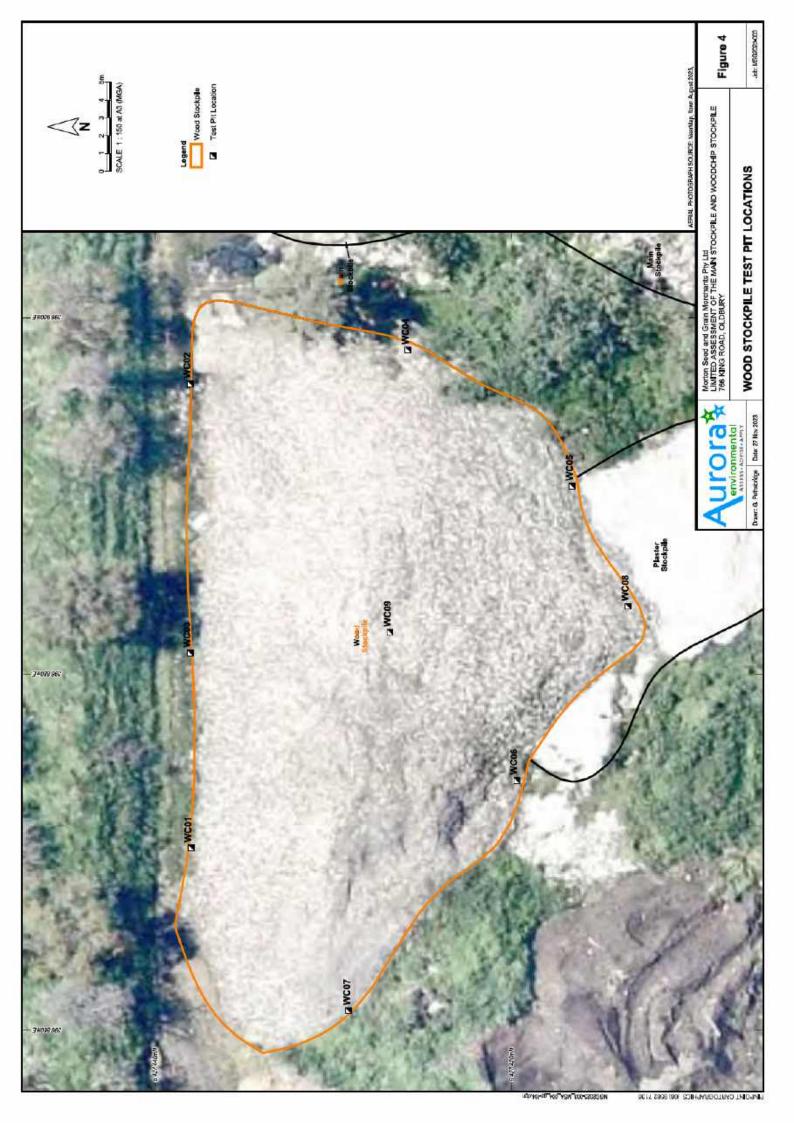
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# **Figures**









# **Attachment 1**

Photograph Log



**Photograph 1:** Wood Stockpile located on the north western operational portion of the Site.



Photograph 2: Wood material located within test pit WC01 (refer to Figure 4).





Photograph 3: Wood material located within test pit location WC02 (refer to Figure 4).



Photograph 4: Wood material located within test pit location WC03 (refer to figure 4).





**Photograph 5:** Wood material found within test pit location WC04 (refer to Figure 4).



Photograph 6: Wood material found within test pit location WC05 (refer to Figure 4).





**Photograph 7:** Wood material found within test pit location WC06 (refer to Figure 4).



Photograph 8: Wood material found within test pit location WC07 (refer to Figure 4).





**Photograph 9:** Wood material found within test pit location WC08 (refer to Figure 4).







**Photograph 11:** Laydown area located south of the main stockpile and wood stockpile.



Photograph 12: Hardstand located on the south eastern portion of the Site.



**Photograph 13:** Main Stockpile located on the northern operational portion of the Site.



Photograph 14: Laydown area located east of the Main Stockpile





**Photograph 15:** Site office and hanger located on the south eastern portion of the Site.



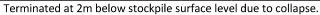
# **Attachment 2**

Test Pit Logs



Soil Bore No: TP01 Client: Morton Property Trust Date Commenced: 24/10/23 Project: Main Stockpile Assessment Date Completed: 24/10/23 Location: 766 King Rd, Oldbury Logged By: GP Project Number: MSG2023-003 Checked By: BD **Excavation Method: Test Pitting** Excavation Co: Morton Property Trust Operator: Jonnie Morton Weather: Sunny Water Strike if Any: NA Total Depth of Hole: 2.0m below the surface of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments                            |
|------------------|------------------|---|---------------|----------------|--------------|-------------------------------------|
| 0.2 - 2.0        | Fill             | SAND: Grey/brown SAND, fine   | Υ             | N              | 0-0.1        | Brick, concrete, metal sheeting,    |
|                  |                  | grained, poorly graded,   | Υ             | N              | 0.4-0.5      | wood (frames).                      |
|                  |                  | homogenous, dry   |               |                | 1.8-1.9      | C & D waste similar throughout the  |
|                  |                  |   |               |                |              | soil profile and generally uniform. |







Soil Bore No: TP02 Client: Morton Property Trust Date Commenced: 24/10/23 Project: Main Stockpile Assessment Date Completed: 24/10/23 Location: 766 King Rd, Oldbury Logged By: GP Project Number: MSG2023-003 Checked By: BD **Excavation Co: Morton Property Trust Excavation Method: Test Pitting** Operator: Jonnie Morton Weather: Sunny Water Strike if Any: NA Total Depth of Hole:2.0m below the surface of the stockpile.

| Depth<br>(mbtos) | Symb<br>ol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID         | Comments  |
|------------------|----------------------|---|---------------|----------------|----------------------|---|
| 0 – 2.0          | Fill                 | SAND: Grey/brown SAND, fine<br>grained, poorly graded,<br>homogenous, dry   | Y             | N<br>N         | 0.4-0.5<br>1.4 – 1.5 | Brick, concrete, rubble, wood<br>(building timber), plastic black<br>tarp/cloth at 0.5mbgl<br>Material such as brick, concrete,<br>rubble and wood similar<br>throughout soil profile |

Terminated at 2m below stockpile surface level due to collapse.





| Soil Bore No: TP03                   |  |
|--------------------------------------|--|
| Client: Morton Property Trust        | Date Commenced: 24/10/23                       |
| Project: Main Stockpile Assessment   | Date Completed: 24/10/23                       |
| Location: 766 King Rd, Oldbury       | Logged By: GP                                  |
| Project Number: MSG2023-003          | Checked By: TD                                 |
| Excavation Co: Morton Property Trust | Excavation Method: Test Pitting                |
| Operator: Jonnie Morton              | Weather: Sunny                                 |
| Water Strike if Any: NA              | Total Depth of Hole: 2.6m below the surface of |
|                                      | the stockpile.                                 |

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-2.6            | Fill             | SAND: Grey/brown SAND, fine<br>grained, poorly graded,<br>homogenous, dry   | Y             | N              | 1.4-1.5      | Concrete, brick, wood (timber for building), grass on surface, plastic. Rubble and C & D waste generally homogenous throughout soil profile. |

Terminated at 2.6m below stockpile surface level due to collapse.





Soil Bore No: TP04Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.0m below the surface

of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments  |
|------------------|------------------|---|---------------|----------------|------------------|---|
| 0-2.0            | Fill             | SAND: Grey/brown SAND, fine grained, poorly graded, homogenous, dry   | Υ             | N              | 0-0.1<br>1.4-1.5 | Brick / concrete rubble / plastic,<br>wood. C & D waste generally<br>homogenous |

Terminated at 2m below stockpile surface level due to collapse.





Soil Bore No: TP05

Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.0m below the surface

of the stockpile.

|                  |                  |   |               |                | 0                | orbite.  |
|------------------|------------------|---|---------------|----------------|------------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments   |
| 0-2.0            |                  | SAND: Grey/brown, fine to medium grained, poorly graded, homogenous, dry.   | Y             | N<br>N         | 0-0.1<br>1.8-2.0 | Brick, concrete, metal sheeting wood (building materials). C & D waste was generally throughout the soil profile and unform. |

Terminated at 2m below stockpile surface level due to collapse.





Soil Bore No: TP06

Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.5m below the surface

|         |        |   |       |       | Of the ste | ekpiie.                         |
|---------|--------|---|-------|-------|------------|---------------------------------|
| Depth   | Symbol | LITHOLOGICAL DESCRIPTIONS                 | C&D?  | PACM? | Sample     | Comments                        |
| (mbtos) | (USCS) | (Soil Name, Colour, Plasticity, Particle  | (Y/N) | (Y/N) | ID         |                                 |
| ,       | ` ′    | Characteristics, Moisture, Secondary Soil | ` ' ' | ` ' ' |            |                                 |
|         |        | Components, % Proportion, Minor           |       |       |            |                                 |
|         |        | Components, Moisture, Origin,             |       |       |            |                                 |
|         |        | Additional Observations)                  |       |       |            |                                 |
| 0-2.5   |        | SAND: Grey/brown, fine to                 | Υ     | N     | 0.4-0.5    | Brick, concrete, metal sheeting |
|         |        | medium grained, poorly graded,            | Υ     | N     | 2.4-2.5    | wood (building materials).      |
|         |        | homogenous, dry                           |       |       |            | C & D waste was generally       |
|         |        |   |       |       |            | throughout the soil profile and |
|         |        |   |       |       |            | unform.                         |
|         |        |   |       |       |            | 411101111.                      |
|         |        |   |       |       |            |                                 |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP07

Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

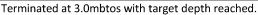
Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 3m below the surface of

|                  |                  |   |               |                | the stock    | phe.   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-0.8            | Fill             | SAND: Grey/brown, fine to medium grained, poorly graded, homogenous, dry.   | Y             | N              |              | Brick, concrete, metal sheeting wood (building materials). C & D waste was similar |
| 0.8-0.9          | Fill             | SAND: Orange, fine to medium grained, poorly graded, homogenous, dry.   | Y             | N              | 0.8-1.0      | throughout the soil profile and uniform.   |
| 0.9-2.9          | Fill             | SAND: Grey/brown, fine to medium grained, poorly graded, homogenous, dry.   | Y             | N              |              |  |
| 2.9-3.0          | Fill             | SAND: Orange, fine to medium grained, poorly graded, homogenous, dry.   | Y             | N              | 2.9-3.0      |  |







Soil Bore No: TP08

Client: Morton Property Trust

Project: Main Stockpile Assessment

Date Commenced: 24/10/23

Date Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.0m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID                | Comments  |
|------------------|------------------|---|---------------|----------------|-----------------------------|---|
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y<br>Y<br>Y   | N<br>N<br>N    | 0-0.1<br>0.4-0.5<br>0.8-1.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |







Soil Bore No: TP09

Client: Morton Property Trust

Project: Main Stockpile Assessment

Date Commenced: 24/10/23

Date Completed: 24/10/23

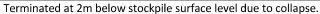
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.0m below the surface

|                  |                  |   |               |                | 0                           |   |
|------------------|------------------|---|---------------|----------------|-----------------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID                | Comments  |
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y<br>Y<br>Y   | N<br>N<br>N    | 0-0.1<br>0.4-0.5<br>0.8-1.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |







Soil Bore No: TP10

Client: Morton Property Trust

Date Commenced: 24/10/23

Project: Main Stockpile Assessment

Date Completed: 24/10/23

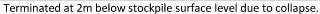
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.0m below the surface

|                  |                  |   |               |                | Of the ste       | - citplier  |
|------------------|------------------|---|---------------|----------------|------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments  |
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N<br>Y         | 0-0.1<br>1.4-1.5 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. 1 x fibre cement PACM fragment 3cm x 2cm bonded and in good condition at 1.4-1.5mbtos |







Soil Bore No: TP11Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.0m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID       | Comments  |
|------------------|------------------|---|---------------|----------------|--------------------|---|
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N              | 0.4-0.5<br>1.8-2.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |

Terminated at 2m below stockpile level due to collapse.





Soil Bore No: TP12Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23

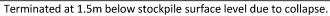
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: TD

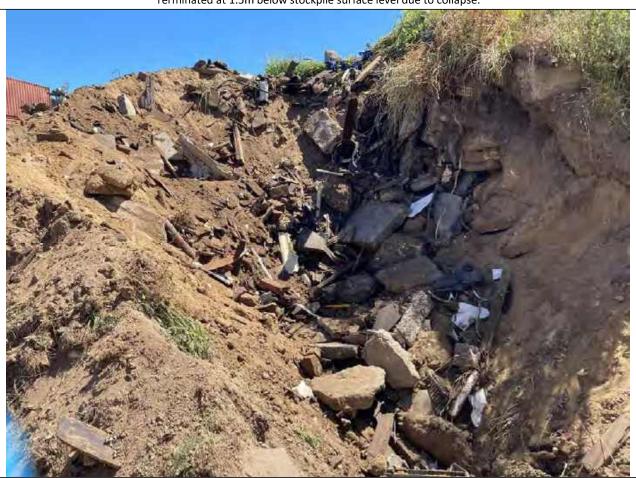
Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.5m below the surface

|         |        |   |       |       | 01 the 3toc | Kpiic.                          |
|---------|--------|---|-------|-------|-------------|---------------------------------|
| Depth   | Symbol | LITHOLOGICAL DESCRIPTIONS                 | C&D?  | PACM? | Sample      | Comments                        |
| (mbtos) | (USCS) | (Soil Name, Colour, Plasticity, Particle  | (Y/N) | (Y/N) | ID          |                                 |
| ` ′     | ` ′    | Characteristics, Moisture, Secondary Soil | ` ' ' | ` ' ' |             |                                 |
|         |        | Components, % Proportion, Minor           |       |       |             |                                 |
|         |        | Components, Moisture, Origin,             |       |       |             |                                 |
|         |        | Additional Observations)                  |       |       |             |                                 |
| 0-1.5   | Fill   | SAND: Brown/grey, fine grained,           | Υ     | N     | 0-0.1       | Brick, concrete, metal, wood    |
|         |        | poorly graded, homogenous,                | Υ     | N     | 1.4-1.5     | (building materials).           |
|         |        | subangular, dry                           |       |       |             | C & D waste was similar         |
|         |        |   |       |       |             | throughout the soil profile and |
|         |        |   |       |       |             | uniform.                        |
|         |        |   |       |       |             | 31111311111                     |
|         |        |   | 1     |       |             |                                 |







Soil Bore No: TP13Client: Morton Property TrustDate Commenced: 24/10/23Project: Main Stockpile AssessmentDate Completed: 24/10/23Location: 766 King Rd, OldburyLogged By: GP

Project Number: MSG2023-003 Checked By: TD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 2.0m below the surface of

the stockpile.

|                  |                  |   |               |                | tile stockpi     | ic.   |
|------------------|------------------|---|---------------|----------------|------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments  |
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Υ             | N              | 0-0.1<br>0.4-0.5 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |

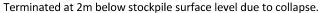
#### Terminated at 2m below stockpile surface level due to collapse.





Soil Bore No: TP14 Client: Morton Property Trust Date Commenced: 24/10/23 Project: Main Stockpile Assessment Date Completed: 24/10/23 Location: 766 King Rd, Oldbury Logged By: GP Project Number: MSG2023-003 Checked By: BD Excavation Co: Morton Property Trust **Excavation Method: Test Pitting** Operator: Jonnie Morton Weather: Sunny Water Strike if Any: NA Total Depth of Hole: 2.0m below the surface of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N              | 0.8-1.0      | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |







Soil Bore No: TP15

Client: Morton Property Trust

Project: Main Stockpile Assessment

Date Commenced: 24/10/23

Date Completed: 24/10/23

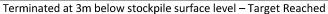
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Excavation Co: Morton Property Trust
Logged By: GP
Checked By: BD
Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 3.0m below the surface of the stockpile.

| Water Strike II Ally. NA |        |   | Total Deptil of Hole. 5.011 below the surface of the stockpile. |        |                    |   |  |
|--------------------------|--------|---|---|--------|--------------------|---|--|
| Depth                    | Symbol | LITHOLOGICAL DESCRIPTIONS   | C&D?  | PACM?  | Sample             | Comments  |  |
| (mbtos)                  | (USCS) | (Soil Name, Colour, Plasticity, Particle<br>Characteristics, Moisture, Secondary Soil<br>Components, % Proportion, Minor<br>Components, Moisture, Origin,<br>Additional Observations) | (Y/N)   | (Y/N)  | ID                 |   |  |
| 0-3.0                    | Fill   | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y   | N<br>N | 1.4-1.5<br>2.8-3.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |  |







Soil Bore No: TP16

Client: Morton Property Trust

Date Commenced: 25/10/23

Project: Main Stockpile Assessment

Date Completed: 25/10/23

Location: 766 King Rd, OldburyLogged By: GPProject Number: MSG2023-003Checked By: BDExcavation Co: Morton Property TrustExcavation Method: Test Pitting

Excavation Co: Morton Property Trust Excavation Method: 7
Operator: Jonnie Morton Weather: Sunny

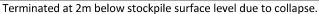
Water Strike if Any: NA

Total Depth of

2.0m below the surface of the stockpile.

Hole:

|         | HOIE:  |   |       |       |        |                                 |  |  |  |
|---------|--------|---|-------|-------|--------|---------------------------------|--|--|--|
| Depth   | Symbol | LITHOLOGICAL DESCRIPTIONS                 | C&D?  | PACM? | Sample | Comments                        |  |  |  |
| (mbtos) | (USCS) | (Soil Name, Colour, Plasticity, Particle  | (Y/N) | (Y/N) | ID     |                                 |  |  |  |
|         |        | Characteristics, Moisture, Secondary Soil |       |       |        |                                 |  |  |  |
|         |        | Components, % Proportion, Minor           |       |       |        |                                 |  |  |  |
|         |        | Components, Moisture, Origin,             |       |       |        |                                 |  |  |  |
|         |        | Additional Observations)                  |       |       |        |                                 |  |  |  |
| 0-2.0   | Fill   | SAND: Brown/grey, fine grained,           | Υ     | N     | 0-0.1  | Brick, concrete, metal, wood    |  |  |  |
|         |        | poorly graded, homogenous,                |       |       |        | (building materials).           |  |  |  |
|         |        | subangular, dry                           |       |       |        | C & D waste was similar         |  |  |  |
|         |        |   |       |       |        | throughout the soil profile and |  |  |  |
|         |        |   |       |       |        | uniform.                        |  |  |  |
|         |        |   |       |       |        | uillioitii.                     |  |  |  |
|         |        |   |       |       |        |                                 |  |  |  |







Soil Bore No: TP17Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

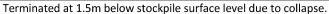
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 1.5m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID       | Comments  |
|------------------|------------------|---|---------------|----------------|--------------------|---|
| 0-1.5            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N<br>N         | 0.4-0.5<br>0.8-1.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |







Soil Bore No: TP18Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.0m below the surface

of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-2.0            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N              | 1.4-1.5      | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |

Terminated at 2m below stockpile surface level due to collapse.





Soil Bore No: TP19Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 2.6m below the surface

|         |        |   |       |       | Of the ste | ekplic.                         |
|---------|--------|---|-------|-------|------------|---------------------------------|
| Depth   | Symbol | LITHOLOGICAL DESCRIPTIONS                 | C&D?  | PACM? | Sample     | Comments                        |
| (mbtos) | (USCS) | (Soil Name, Colour, Plasticity, Particle  | (Y/N) | (Y/N) | ID         |                                 |
| '       | ' '    | Characteristics, Moisture, Secondary Soil |       | , , , |            |                                 |
|         |        | Components, % Proportion, Minor           |       |       |            |                                 |
|         |        | Components, Moisture, Origin,             |       |       |            |                                 |
|         |        | Additional Observations)                  |       |       |            |                                 |
| 0-2.6   | Fill   | SAND: Brown/grey, fine grained,           | Υ     | N     | 1.8-2.0    | Brick, concrete, metal, wood    |
|         |        | poorly graded, homogenous,                |       |       | 2.4-2.5    | (building materials).           |
|         |        | subangular, dry                           |       |       |            | C & D waste was similar         |
|         |        | - ' '                                     |       |       |            | throughout the soil profile and |
|         |        |   |       |       |            | uniform.                        |
|         |        |   |       |       |            | umom.                           |
|         |        |   |       |       |            |                                 |







Soil Bore No: TP20 Client: Morton Property Trust Date Commenced: 25/10/2023 Project: Main Stockpile Assessment Date Completed: 25/10/2023

Location: 766 King Rd, Oldbury Logged By: GP Checked By: BD Project Number: MSG2023-003

Excavation Co: Morton Property Trust **Excavation Method: Test Pitting** 

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

|                  |                  |   |               |                |              | - Children  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
| 0-2.5            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N              | 0-0.1        | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP21Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 2.5m below the surface

|                  |                  |   |               |                | 0                  |   |
|------------------|------------------|---|---------------|----------------|--------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID       | Comments  |
| 0-2.5            | Fill             | SAND: Brown/grey, fine grained, poorly graded, homogenous, subangular, dry  | Y             | N<br>N         | 0.4-0.5<br>0.8-1.0 | Brick, concrete, metal, wood (building materials). C & D waste was similar throughout the soil profile and uniform. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP22Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-2.5            | Fill             | SAND: Dark brown, fine to medium grained, poorly graded, homogenous   | Υ             | N              | 0-0.1        | Timber and natural wood, plastic, concrete. C & D waste uniform throughout. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP23Client: Morton Property TrustDate Commenced: 25/10/2023Project: Low Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID                | Comments  |
|------------------|------------------|---|---------------|----------------|-----------------------------|---|
| 0-2.5            | Fill             | SAND: Dark brown, fine to medium grained, poorly graded, homogenous   | Y<br>Y<br>Y   | N<br>N<br>N    | 0-0.1<br>0.4-0.5<br>2.4-2.5 | Timber and natural wood, plastic, concrete. C & D waste uniform throughout. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP24Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

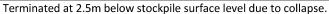
Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 2.5m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID       | Comments  |
|------------------|------------------|---|---------------|----------------|--------------------|---|
| 0-2.5            | Fill             | SAND: Dark brown, fine to<br>medium grained, poorly graded,<br>homogenous   | Y             | N<br>N         | 0.8-1.0<br>1.4-1.5 | Timber and natural wood, plastic, concrete. C & D waste uniform throughout.  Orange lense of sand on eastern wall – sample retrieved at 1.4 – 1.5mbtos. |







Soil Bore No: TP25Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

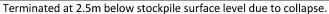
Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments   |
|------------------|------------------|---|---------------|----------------|------------------|--|
| 0-2.5            | Fill             | SAND: Dark brown, fine to<br>medium grained, poorly graded,<br>homogenous   | Y             | N<br>Y         | 0-0.1<br>0.4-0.5 | Timber and natural wood, plastic, cloth, concrete. C & D waste uniform throughout.  1 x bonded fibre cement PACM fragment found at 0.4 – 0.5 2cm X 2cm bonded and in good condition. |







Soil Bore No: TP26

Client: Morton Property Trust

Project: Main Stockpile Assessment

Date Commenced: 25/10/2023

Date Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 2.5m below the surface

|                  |                  |  | 5. 4.15 5455 Mp. 10. |                |              |                                   |
|------------------|------------------|--|----------------------|----------------|--------------|-----------------------------------|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, | C&D?<br>(Y/N)        | PACM?<br>(Y/N) | Sample<br>ID | Comments                          |
|                  |                  | Additional Observations)   |                      |                |              |                                   |
| 0-1.5            | Fill             | SAND: Dark brown, fine to  | Υ                    | N              | 0.8-1.0      | Timber and natural wood, plastic, |
|                  |                  | medium grained, poorly graded,   | Υ                    | N              | 1.4-1.5      | cloth, concrete. C & D waste      |
|                  |                  | homogenous   |                      |                |              | uniform throughout.               |
|                  |                  |  | 1                    |                |              |                                   |

Terminated at 1.5m below stockpile surface level due to collapse.





Soil Bore No: TP27Client: Morton Property TrustDate Commenced: 25/10/2023Project: Low Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole:2.5m below the surface

|                  |                  |   | 5. dile 5. dil |                |                         |   |
|------------------|------------------|---|--|----------------|-------------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N)  | PACM?<br>(Y/N) | Sample<br>ID            | Comments  |
| 0-2.5            | Fill             | SAND: Dark brown, fine to<br>medium grained, poorly graded,<br>homogenous   | Y  | N<br>N         | 1.5 –<br>2.0<br>2.4-2.5 | Timber and natural wood, plastic, metal, cloth, concrete. C & D waste uniform throughout. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP28Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID     | Comments   |
|------------------|------------------|---|---------------|----------------|------------------|--|
| 0-2.5            | Fill             | SAND: Dark brown, fine to<br>medium grained, poorly graded,<br>homogenous. Orange sand mixed<br>throughout soil profile   | Y             | N<br>N         | 0.0.1<br>0.4-0.5 | Timber and natural wood, plastic, cloth, concrete. C & D waste uniform throughout. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP29

Client: Morton Property Trust

Project: Main Stockpile Assessment

Date Commenced: 25/10/2023

Date Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA Total Depth of Hole: 2.5m below the surface

of the stockpile.

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID       | Comments   |
|------------------|------------------|---|---------------|----------------|--------------------|--|
| 0-2.5            | Fill             | SAND: Dark brown-grey, fine to medium grained, poorly graded, homogenous.   | Y             | N<br>N         | 0.8-1.0<br>1.4-1.5 | Timber and natural wood, plastic, cloth, concrete. C & D waste uniform throughout. |

Terminated at 2.5m below stockpile surface level due to collapse.





Soil Bore No: TP30Client: Morton Property TrustDate Commenced: 25/10/2023Project: Main Stockpile AssessmentDate Completed: 25/10/2023

Location: 766 King Rd, Oldbury
Project Number: MSG2023-003
Logged By: GP
Checked By: BD

Excavation Co: Morton Property Trust Excavation Method: Test Pitting

Operator: Jonnie Morton Weather: Sunny

Water Strike if Any: NA

Total Depth of Hole: 2.5m below the surface

of the stockpile.

|         |        |   |       |        | Of the stock       | vpiic.   |
|---------|--------|---|-------|--------|--------------------|--|
| Depth   | Symbol | LITHOLOGICAL DESCRIPTIONS   | C&D?  | PACM?  | Sample             | Comments   |
| (mbtos) | (USCS) | (Soil Name, Colour, Plasticity, Particle<br>Characteristics, Moisture, Secondary Soil<br>Components, % Proportion, Minor<br>Components, Moisture, Origin,<br>Additional Observations) | (Y/N) | (Y/N)  | ID                 |  |
| 0-2.5   | Fill   | SAND: Dark brown, fine to medium grained, poorly graded, homogenous.  | Y     | N<br>N | 0.8-1.0<br>2.4-2.5 | Timber and natural wood, plastic, cloth, concrete. C & D waste uniform throughout. |



### Attachment 2 – Test Pit Logs



#### Disclaimer:

Aurora Environmental has described soils with reference to AS1726:2017, consistent with requirements of the National Environmental Protection (Assessment of Site Contamination) Measure. Aurora Environmental does not provide geotechnical assessment or engineering advice and the soil descriptions should not be relied upon for these purposes in any form.

# **Attachment 3**

**Tabulated Analytical Results** 

### Table 1 Analytical Results - Heavy Metal Results 766 King Road, Oldbury

|                              |  |              |              |            |        | 44.4.1    |          |       |       |           |
|------------------------------|--|--------------|--------------|------------|--------|-----------|----------|-------|-------|-----------|
|                              |  |              |              |            |        | Metals    |          |       | Г     |           |
|                              |  |              |              |            |        |           |          |       |       |           |
|                              |  |              |              |            |        | mg/kg     |          |       |       |           |
| QL                           |  | 2            | 0.1          | 1          | 1      | 1         | 1        | 0.02  | 1     | 5         |
| VEPM 2013 Table 18(5) Gen    |  | 160          | NE           | 310        | NE     | 85        | 1,800    | NE    | 55    | 210       |
| NEPM 2013 Table 1A(1) Hits   | The same of the sa | 3,000        | 900          | NE         | 3600   | 240,000   | 1,500    | 730   | 6,000 | 400,000   |
| Field ID                     | Date   |              |              |            |        |           |          |       | _     |           |
| P01_1.8-1.9<br>P02_0.4-0.5   | 24-Oct-23<br>24-Oct-23   | 3.60         | 0.40         | 7.4        | 3.9    | 18<br>9.1 | 55<br>22 | 0.12  | 1.8   | 260<br>83 |
| P03 1.4-1.5                  | 24-Oct-23  | 5.10         | <0.1         | 8.7        | -      | 10        | 26       | 0.05  | 2.1   | 150       |
| P04 0.0-0.1                  | 24-Oct-23  | 3.70         | 0.10         | 9          |        | 7.9       | 23       | 0.06  | 1.80  | 330       |
| P04_1.4-1.5                  | 24-Oct-23  | 3.60         | 0.10         | 7.6        | 7 72   | 9.5       | 20       | 0.07  | 1.4   | 330       |
| POS_1.8-2.0                  | 24-Oct-23  | 2.20         | €0.1         | 5.3        | 1.0    | 8.3       | 18       | 0.05  | 1.3   | 160       |
| POS_0-0.1                    | 24-Oct-23  | 2.90         | <0.1         | 6.6        | - 3    | 8.2       | 23       | 0.05  | 1.8   | 7.1       |
| P06_0.4-0.5                  | 24-Oct-23  | 3.1          | <0.1         | 8.8        | 194    | 3.8       | 15       | 0.04  | <1    | 150       |
| P06_2.4-2.5                  | 25-Oct-23  | 2.60         | <0.1         | 8.7        | 35     | 8.8       | 12       | 0.09  | 1.5   | 130       |
| P07 0.8-1.0<br>P07 2.9-3.0   | 24-Oct-23<br>24-Oct-23   | 2.3          | <0.1         | 5.1        | -      | 15        | 14       | 0.05  | 1.3   | 49        |
| P08 0-0.1                    | 24-Oct-23  | 3.7          | <0.1         | 9.50       |        | 2.20      | 3.10     | 0.03  | 1.10  | 8.3       |
| P08_0.4-0.5                  | 24-Oct-23  | 4.60         | <0.1         | 11         | -      | 2.7       | 3.7      | 0.03  | <1    | 11        |
| P09_0.8-1.0                  | 24-Oct-23  | 4            | <0.1         | 8,4        | 1.5    | 2.3       | 3.5      | 0.03  | <1    | 10        |
| P10_1.4-1.5                  | 24-Oct-23  | 20           | <0.1         | 22         | 100    | 15        | 13       | 0.03  | 1,8   | 43        |
| P11_1.8-2.0                  | 24-Oct-23  | 32           | 0.20         | 30         | 1.85   | 17        | 28       | 0.07  | 4.2   | 110       |
| P10_1.4-1.5                  | 25-Oct-23  | 2.3          | <0.1         | 6.4        | -      | 9.8       | 34       | 0.04  | 1.2   | 100       |
| P12_0.0-0.1                  | 24-Oct-23  | 23           | 0.20         | 28         |        | 26        | 23<br>43 | 0.09  | 4.5   | 110       |
| P12_1.4-1.5<br>P13_0.0-0.1   | 24-Oct-23<br>24-Oct-23   | 30           | 0.20         | 7.20       | 1.65   | 48<br>9.3 | 29       | 0.08  | 11    | 160       |
| P13_0.4-0.5                  | 24-Oct-23  | 3.8          | 1.60         | 8.5        |        | 9.5       | 27       | 0.09  | 1.7   | 150       |
| P14 0.8-1.0                  | 24-Oct-23  | 2.4          | 0.20         | 6.4        | J 52   | 9.5       | 38       | 0.09  | 1.3   | 230       |
| P15 1.4-1.5                  | 24-Oct-23  | 3.2          | 0.10         | 7.1        |        | 8.7       | 77       | 0.06  | 1.2   | 210       |
| P15_2.8-3.0                  | 24-Oct-23  | 3.2          | ₹0.1         | 7.6        | 1.55   | 9.6       | 18       | 0.04  | 1.3   | 88        |
| P16 0-0.1                    | 25-Oct-23  | 6.20         | 0.10         | 8.3        |        | 11        | 26       | 0.06  | 1.5   | 120       |
| P17 0.4-0.5                  | 25-Oct-23  | 3.60         | 0.10         | 7.8        |        | 9.9       | 19       | 0.05  | 1.9   | 130       |
| P17_0.8-1.0                  | 25-Oct-23  | 2.90         | 0.10         | 6          |        | 7.3       | 20       | 0.05  | 2.4   | 98        |
| TP18_1.4-1.5<br>TP19_1.8-2.0 | 25-Oct-23<br>25-Oct-23   | 4,30<br>3,30 | 100.1        | 6.8        |        | 7.3       | 30       | 0.06  | 1.5   | 150       |
| P19 2.4-2.5                  | 25-Oct-23  | 4.5          | 0.1          | 9.4        | 1.6    | 111       | 36       | 0.00  | 2.1   | 240       |
| P20_0-0.1                    | 25-Oct-23  | 9.5          | 0.2          | 12         |        | 13        | 36       | 0.07  | 1.8   | 480       |
| P21_0.4-0.5                  | 25-Oct-23  | 3.1          | 0.2          | 9.1        | -      | 9.80      | 25       | 0.07  | 1.6   | 540       |
| TP22 0-0.1                   | 25-Oct-23  | 3,5          | 1.8          | 12         |        | 24        | 80       | 0.07  | 5.2   | 650       |
| P23_0.4-0.5                  | 25-Oct-23  | 2.7          | 0.2          | 6.4        | -      | 8.4       | 32       | 0.05  | 1.3   | 270       |
| P23 2.4-2.5                  | 25-Oct-23  | 3,8          | 90%          | 7.4        | -      | 8.6       | 29       | 0.05  | 2     | 75        |
| P24_0.8-1.0                  | 25-Oct-23  | 3,4          | V011         | 6.9        | 1.55   | 6.3       | 9.1      | 0.03  | 1.4   | 97        |
| P24_1.4-1.5<br>P25_0-0.1     | 25-Oct-23<br>25-Oct-23   | 4.1          | 0.2          | 5.1<br>6.7 |        | 9.8       | 12<br>65 | 0.03  | 1.5   | 120       |
| P25_0.4-0.5                  | 25-Oct-23  | 3.6          | 0.1          | 8.1        | 1 25.  | 10        | 29       | 0.05  | 1.6   | 110       |
| P26_0.8-1.0                  | 25-Oct-23  | 4.9          | 0.3          | 5.6        |        | 11        | 28       | 0.05  | 2.2   | 220       |
| P27_1.5-2.0                  | 75 (10) 72   | 280          | 0.1          | 400        | - 11   | 40        | - 11     | 0.1   | 27    | 47        |
| P27_2.4-2.5                  | 25-Oct-23  | 52           | 50.1         | 50         |        | 35        | 8.4      | 0.05  | 2.3   | 31        |
| 2027/2007/20                 |  | 44           | 0.1          | 49         | (20)   | 39        | 12       | 0.05  | 4.2   | 45        |
| P28_0.0-0.1                  | 25-Oct-23  |              | CE[S]        |            |        |           | 1.02     | 75307 | 39.56 | 1000      |
| P28_0.4-0.5                  | 25-Oct-23  | 72           | 0.1          | 61         |        | 51        | 19       | 0.1   | 3.8   | 71        |
| P29_0.8-1.0                  | 25-061-23  | 14           | 4001         | 23         |        | 12        | 12       | 0.04  | 2.3   | 48        |
| P29_1.4-1.5<br>P30_2.4-2.5   | 25-Oct-23<br>25-Oct-23   | 5.6          | -0:1<br>-0:1 | 8.5        | 1      | 2.8       | 9.4      | 0.04  | 1.5   | 14        |
| (01                          | 25-0ct-23<br>25-0ct-23   | 2,4          | -0.2         | 3.5        | in sin | 2.8       | 12       | 0.03  |       | 100       |
| P16 0-0.1                    | 25-Oct-23  | 6.20         | 0.10         | 8.3        |        | 11        | 26       | 0.05  | 1.5   | 120       |
| PD %                         | 25 500 25  | 60.4%        | NC           | 74.494     | -      | 85.790    | 73.7%    | 16.2% | NC    | 18.2%     |
| 7005                         | 25-0 ct 23   | 3.2          | -0-0         | 5.6        |        | 5.1       | -14      | 0.04  | -     | 120       |
| P20_0-0.1                    | 25-Oct-23  | 9.5          | 0.2          | 12         |        | 13        | 36       | 0.07  | 1.8   | 490       |
| RPD %                        | 7.   | 99,3%        | NC NC        | 73.7%      | -      | 87.3%     | 88.0%    | 54.5X | NE    | 500,04    |
| 2002                         | 25-Out-23  | 9.7          | -0-2         | 13         |        | 3.5       | - 0.0    | 0:02  | 2.7   | - 11      |
| TP30_2.4-2.5                 | 25-Oct-23  | 4.4          | 0,1          | 8.2        | 7 77   | 2.6       | 3.4      | 0.03  | +1    | 14        |
| RPD %                        | 8  | -25.7%       | NC NC        | 45.3%      |        | 32.8%     | 3.0%     | 40.0% | NG.   | 24.0%     |

References:

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 1999).

Notes and Abbreviations: LOR - limit of Reporting

HIL - Health Investigation Level

mg/kg - milligram per kilogram

EIL - Ecological Investigation Level NE - Not Established

ID - Identification NA - Not Applicable NC - Not Calculatable

| Table 2 | dramatic<br>7 |  |
|---------|---------------|--|
|         | 2 R           |  |

|   |  |      |         |        | ETEN   |      |      | 72    |       | THE PERSON NAMED IN |        |       |
|---|--|------|---------|--------|--------|------|------|-------|-------|---------------------|--------|-------|
|   |  |      |         |        |        |      |      |       |       |                     |        |       |
|   |  | T/Sa | 2       | 7,04   | Mary 1 | Ę.   | Sel. | N/N   | No.   | aça.                | bythu  | 100   |
| 252 Table IACR Complete D                 | PM 2913 Take 14.03 Committee D 344 Hit for tapour minutes, Seed- | ě    | 1       | 1      | 1      |      |      | 1     |       |                     |        |       |
| TO Take Billy Greek Et                    | HER SED THE SHIP GOOD IN CONVEY                                  | 270  | ¥       | NI NI  | 34     | M    |      |       | ¥     | #                   | W.     | 2     |
| Table 1000 Children Corn                  | Aire Course half-recent sites                                    | ¥    | 2       | 130    | 145    | 4    | NE   | -     | 2     | 110                 | 700    | NO.   |
| 901 19-19                                 | Monail   | 48.5 | 10      | 135    | 1199   | 462  | 10   | 1313  | 620   | 399                 | 6009   | 0012  |
| 202                                       | 24042  | 10.5 | 10      | 1720   | 125    | 225  | 175  | 10.7  | 400   | - ID                | 4330   | c100  |
| WOLD 14-15                                | 24042  | 5    | Į,      | - 68.1 | Ų      | 182  | V    | clt3  | 420   | - 27                | 600    | e100  |
| NA 96-01                                  | 1000 to  | 217  | 9       | 100    | 9 9    | 182  | 9 9  | d c   | 9 6   | 100                 | 800    | 0017  |
| 17  | 34-0432  | 200  | 10      | 4.4    | 109    | 9.7  | 10   | 40.7  | 89    | - ED                | 9000   | clos  |
| 17  | 340033   | 2.50 | 16      | etil   | 401    | 447  | 100  | 40%   | 120   | 250                 | 4100   | -c100 |
| TROE G 4-05                               | 38-04-22   | 570  | 100     | 1787   | 10     | 292  | 100  | 92    | 900   | 150                 | 9000   | <100  |
| 71  | 250033   | 1    | Į,      | - 01   | Q      | 2.00 | ij.  | 607   | (E)   | 200                 | 000    | clino |
| 71  | 24042  |      | 0       | -      | Ų.     | 200  | Į.   | 0     | 8     | 900                 | 2000   | 0015  |
| 100 001                                   | 34-00-13   | 207  | 9       | 0 10   | -401   | 40.7 | 19   | 003   | 100   | 98                  | 005    | 2100  |
| 99  | 19-00-53   | -570 | 159     | 1.00   | 100    | 127  | 19   | 100.3 | 000   | cite                | 0002   | c100  |
| 3909 GA-L6                                | 24-04-22   | 570  | 10      | 44.1   | -411   | 250  | 7    | 107   | 89    | - 451               | 4200   | <100  |
| 200 1441.5                                | 1900123  | 12.5 | 10      | 426.1  | 40.1   | 400  | g    | 1003  | 620   | . 00                | 170    | <100  |
| P11 1.8-2.0                               | 24 644 23  | 45   | Ý       | - 18.5 | ij     | 44.2 | ij   | OB S  | 430   | - 25                | OH     | <100  |
| 7731 04:03                                | 120042   | 511  | 10      | 400    | 129    | 2,62 | Ü    | 4.00  | (2)   | 0.00                | 6003   | <.100 |
| an an                                     | 24.04.22   | 100  | Ų       | 107    | 9      | 427  | ij.  | 1     | 933   | 400                 | 280    | 360   |
| 22 14413                                  | 1800.23  | 100  | 10      | 101    | 100    | 100  | g    | 100   | 88    | 90                  | 100    | 180   |
| 100                                       | 24.000.23  | 200  | į į     | 100    | 100    | 10.0 | V    | 100   | 700   | 181                 | 1000   | 4100  |
| 1974 08.3 0                               | 31043  | 10.0 | i       | 100    | 9      | 45.3 | i    | 1000  | 900   | 3 2                 | 000    | 4180  |
| 12  | 570047   | 623  | 503     | -0.1   | 1001   | 50.2 | 100  | 525   | 8     | 35                  | 311    | ctio  |
| F15 28.80                                 | 24.044.23  | 579  | 601     | 48.3   | Q.     | 163  | Ų    | 10.3  | 730   | - 25                | 001    | +110  |
| 126.001                                   | 1500.22  | 16.3 | 101     | 103    | -0.1   | 102  | 101  | 9     | 027   | 9                   | 100    | 1000  |
| 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,   | 2 to 0 to 0  | 400  | 100     | 100    | Ç S    | 207  | 1    | 787   | 9     |                     | 907    | 0071  |
| 27 48-11                                  | 2 TO 1   | 1    | 100     | 100    |        | 1000 | 1    | 10.07 | 9.5   | 8 8                 | 1      | 2100  |
| 12  | 230422   | 177  | 10      | 170    | 100    | 197  | 10   | 10.3  | 130   | 100                 | 0000   | 100   |
| 1929, 24-25                               | 25-04-23   | 415  | ii<br>V | 197    | 101    | 163  | 104  | 100   | 100   | 950                 | 4000   | 2100  |
| la la                                     | 25-040-23  | 16.7 | 104     | 101    | 40.1   | 10.2 | 101  | 9     | 130   | -120                | -000   | 0015  |
| 1923,04-05                                | 25-00-52   | 418  | SI.     | 10.1   | 9      | 183  | 104  | 10.3  | 00    | :000                | -0239  | 2000  |
| 71  | 13-04-11   | Med  | 100     | 101    | #      | 10.3 | 101  | 9     | 200   | ą.                  | 140    | 8 1   |
| 1924 06-03                                | 17000  | 1    | 9       |        | 2      |      | 1    | 313   | 3     | Dist.               | 4500   | 0011  |
| 826 Q8-16                                 | 2000   | 10   | i       | 100    | 10     | 500  | 100  | 107   | 7 8   | 100                 | 4000   | 100   |
| 37.41.415                                 | 25 Co 23   | 17   | 10      | -4.1   | ij     | 43.3 | 9    | 197   | 100   | .039                | 4000   | 0015  |
| 1928,043                                  | 1800-13  | 202  | 100     | 1000   | 40.1   | 49.3 | 401  | 40.5  | (20)  | 150                 | 170    | 110   |
| 50  | 25-00-25   | 7    | 9       | 18.5   | 4      | 43   | 9    | 9     | 8     | 9                   | 97     | all   |
| 0 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 2000   | 5    | 9       | -      | 9      | 107  | 8    | E C   | 250   | il di               | 110    | 4100  |
| 25. 25. 25. 25. 25. 25. 25. 25. 25. 25.   | STORY IS   | 7    | 0 5     | 9 1    | g s    | 40.0 | 9 9  | 200   | 9 8   | 100                 | 8 5    | 8     |
| TP26 G.0-01                               | 25002  | 1    | 19      | 170    | 100    | 48.3 | V    | 100   | 420   | 100                 | 991    | 400   |
| 100                                       | 200000   | 100  | 100     |        | 100    | 4.00 | 100  | 7     | 100   | 1                   | 200    | 1     |
| 3750 0010                                 | 15 04 23   | 150  | 19      | 48.1   | 170    | 4.0  | Ý    | 103   | 100   | 400                 | 166    | 200   |
| 15  | 250023   | 4.07 | 100     | 110    | 100    | 107  | 1100 | 100   | 127   | - 200               | 140    | 0007  |
| 7930 24.25                                | 2,000  | 1970 | 19      | 14.1   | -40.1  | 18.3 | Ÿ    | 103   | 420   | 450                 | 10,000 | 00050 |
|   | 25-06-23   | 443  | 174     | - 433  | 100    | 433  | 1734 | 403   | - 300 | 101                 | 180    | 4000  |
| 1936 00.1                                 | 15-04.13   | 29   | 170     | 791    | *D*    | 10.2 | 1.0+ | -03   | 100   | 9                   | 130    | 4138  |
| ľ   | -  | ¥    | 38      | NC     | - NE   | MC   | 9    | 386   | MC    | NC                  | 28.2%  | - MC  |
| 10,000                                    | 25-04-23   | 46.5 | 7       | -41    | 477    | 105  | 1121 | ô     | 89    | 955                 | 051    | 4300  |
| 1   | 25-04-23   | 1007 | 100     | OUT    | 4111   | 5112 | 100  | 103   | 85    | -00                 | 000    | 1877  |
|   |  | ¥    | 2       | ¥      | 2      | ¥    | y    | ¥     | ¥     | NC.                 | ¥      | 3     |
| 10,00                                     | 2500.0   | 9 20 | W i     | 182    | tt     | 0    | 100  | e de  | 5     | 0.00                | 100    | 100   |
| 71  | Though the   | 113  | -       | 1      | ,      | 7    | 1    | 1     | 3 1   | 3                   | die.   | 2 3   |

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Table 3 Analytical Squatts - Organechlorine Pesticides 766 Gnf Food, Orthury

| 110  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            |          |         |          |         |          |
|--|-----------|--------|------------------|--------|---------|---------|---------|--------------|--------|-------|------------|---------------|-------------------------|------------|---------|----------------|-------|------------|----------|---------|----------|---------|----------|
|  |           |        |                  |        |         |         |         |              |        |       |            | Organischio   | Organochlorine Perticid |            |         |                |       |            |          |         |          |         |          |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                | -     |            |          |         |          |         |          |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         | _          | _       |                |       |            |          |         |          |         |          |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            | _        |         |          |         | _        |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            | _        |         |          |         | _        |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            | _        |         |          |         | _        |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            |          |         |          |         |          |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            |          |         |          |         |          |
|  | 103       | 0.0    | 200              | 0.00   | 200     | 889     | 600     | 6.05         | 000    | t     | t          | ۰             | T                       | Г          | Т       | 5000 50        | L     | 17         | 90       | 100     | 0.03     | 500     | 900      |
| WIPM SOLD TASK TREE  | Dane      |        | 2                | H      | CAG     | 141     | H       | -            | ×      | ı     | h          | -             | Г                       |            | Г       | N. JA          |       |            | П        | M       | 111      |         | ¥        |
| NEW 2013 False 1A(1) His Commy   |           | 230    | Pet              | 316    | ME      | W 385 W | 15      | NE S         | N      | NE    | 3000       | 3000          | Mary No.                | 001        | W       | 34             | 8     | NE O       | B        | 2,500   | 0.11     |         | 3,600    |
|  | Date      |        |                  |        |         |         |         |              |        | П     | П          | ш             | П                       |            |         |                | П     | ш          |          |         |          |         |          |
| TP21 1.81.9  | 24-04-22  | 110    | 400              | 4777   | 1000    | 4000    | 977     | 4000         | <0.05  | 0.13  | 40,05      | 10.05         | 10°C- 10°C              | 12 to 12   | 10'0    | S0.01 10.05    | 90'00 | 920        | 9000     | -90.05  | 10.0     | 623     | 1000     |
| THOS 0.4-0.5   | 24-04-11  | 411    | -drifts          | 40.03  | - HOUR  | 4000    | 45189   | 910          | 40.05  |       |            |               | th enth                 | 1000       |         |                | Ů.    | 40.09      | 16/2/04  | V.      | NITTH .  | ALTE:   | 41.71    |
| FPC8.3.4-1.5   | 26-000-23 | CIT    | 40.05            | 40.09  | 4000    | 40.09   | 10,005  | 618          | cuts   |       |            | 1962 534      | 105 101                 | 10.1       | 200     |                | 9     | 40.00      | 4000     | 400     | 40.05    | 0.48    | 4100     |
| TYC4_0.0-0.1   | 24 Ce 23  | 43.5   | *0.05            | \$0.04 | \$0.04  | 447     | 912     | 50.0         | - 900  |       | Ť          | 123           | VQ S2V                  | 200        | 7.04    | S0.01 S        | 50.05 | 50.0       | 100      | 50:05   | 50'0+    | 157     | - SC( )= |
| TPO4 1,415   | 24-04-23  | 141    | +0.09            | 140.00 | 10.04   | 200     | 50.00   | 50.00        | -dits  | Г     | Г          | 10.05         | 101                     | 100        |         | Г              |       | 900        | 90'0     | - SD OP | - 90 0   | 9.47    | 100      |
| mes 1,820  | 34.0ec.13 | 101    | 40.05            | 40.05  | 40.0%   | 40.06   | 40.0%   | 40.46        | +0.05  | T     | T          | 20.00         | 50 02                   | 50.05      | Γ       | 80.08<br>80.08 |       | 8079       | 50.05    | - SO OF | 40.05    | 899     | 408      |
| PAGE A.A.  | 17.100.10 | 100    | The same         | 20.00  | 2000    | 20.00   | 200,000 | 200.00       | 20000  | T     | Ť          | T             | T                       | T          | T       | T              | Ī     | 40.00      | . 20.00  | Т       | 100      | 1       |          |
| 200 04 0   | 24 0.40   |        | 0.00             | 10.0   | 20.00   | 4.45    | 200     | 20.00        | 200    | T     | 1000       | 100           | 1                       |            | T       | T              | T     | 4.00       | 16.74    | 100     | 200      |         |          |
| 10 to  | 77.00     | 200    | 2070             | 20.02  | 40.02   | 2000    | 200     | g v          | CIO.   | Ť     | 2003       | 200           | 100                     |            | 200     | 010            | 10,40 | 000        | 0000     | 1       | 200      |         |          |
| IPO6 24-23   | 27-00-23  | 0      | 40.03            | 4005   | 40.05   | 609     | 200     | 687          | 53.63  | 4005  | Ť          | Ť             | 90                      | 9          | I       | T              | I     | 973        | 5072     | T       | 200      | 8       | 9        |
| DEC 04.10  | 24.00.23  | 40.7   | 40.09            | 48.04  | 4DW     | 600     | 4000    | 400          | Ī      | 1     | Ť          | 908           | 906 484                 | 437        | 100     | T              | 40.08 | 40.05      | 90709    | 1       | 40.05    | 4709    | 0.06     |
| FRO 24-10  | 25002     | 101    | 40,03            | 40.03  | +0.09   | 40,09   | 40,05   | 6,69         | 1      | 50.05 | 1          | 1             | 630                     | 181        | 9000    | 1              |       | 40.05      | 40.09    | 1       | 40.03    | 400     | 600      |
| TOOL D-0.1   | 24-009-23 | (65)   | 609              | 000    | 89      | 600     | 40.05   | 40.03        | 1      | 1     | 1          | 1             | 105                     | 2000       | 1       | T              |       | 1600       | -020     | 1       | 40.03    | 400     | 5775     |
| FP08 0.4-0.5   | 24-04-23  | 43.5   | 400              | 40.05  | 40.85   | 40.00   | OR      | 40.65        | 40.00  | 1     | 9005       | 43.05         | 52                      | 5000       | 1       | 20.00          | 40.05 | 970        | 40.00    | 1       | 20.00    | 4 lb    | 405      |
| SPC9_0.8-1.0   | 24-Opt-21 | 101    | 40.0%            | 10.04  | +0.0%   | 40.0%   | 0.00    | 510          |        |       |            | 300           | CF CD1                  | - 91       |         |                |       | 90.00      | 9000     |         | 40.08    | 400     | 4114     |
| PM0_1.4-1.5  | 3A-Ord-33 | - 4011 | +0.09            | 40.03  | - +DIM  | 40.09   | 0.0     | e e          |        |       | Ť          | title (cit)   | 100                     | 100        | 10      |                | Ĭ     | 40.00      | -9220-   | 40.00   | 4114     | 41.17   | 49739    |
| 1711 1.62.0  | 24-Cet-21 | 101    | 1000             | +0.03  | 1000    | 90/05   | 5002    | 5000         |        |       | Ī          | 127 127       | 101                     | 10.0       | 10.0    |                | Ĭ     | 40.05      | 5000     |         | 5000     | 501     | 1000     |
| 1791 0405  | 25 Oct 23 | -69.3  | 40,05            | -d.00  | *D:03   | 40,00   | 50.00   | 50,05        |        |       | Ť          |               | 10+ 30                  | 70: 3      |         |                | į.    | 90700      | -979     | ř       | - E0.05  | - 40.05 | -9079-   |
| 1912 CO-0.1  | 24-06-23  | 100    | MC08             | 20.0s  | 90'04   | 40.85   | 909     | 40.05        |        |       | ľ          | ľ             | 305 400                 | 5000       |         | Ī              | I.    | 40.78      | 979      | 40.16   | 40.05    | 4005    | 900      |
| P13 1415   | 24-000-23 | 00.1   | 400%             | 40.04  | *0.09   | 40.09   | 40000   | 40.00        | 40,03  |       | con such   | ľ             | acts since              | 8 - A11 CH | Ī       | 90.00          | 1     | 40.08      | *0.0%    |         | 40.09    | 40.00   | 40.09    |
| TPER CREEK   | 34-0m-33  | 187    | 40.113           | 40.03  | 40.03   | 40.00   | 45.65   | 9.00         | T      | T     | ľ          |               | 50 c0 c                 | 101        | Ī       | T              |       | 46.7%      | 45.75    | 9       | -40.03   | W 755   | 100      |
| TOTA DADS  | 24.04.33  | 140    | 20,100           | 20.00  | 1000    | 2000    | 1000    | 1999         | T      | T     | 1.30       | 200           | 207                     | 200        | 2       | T              | I     | 10.75      | 200      | 10.00   | 100      | 1       | -        |
| Trans Control  | 27.00.22  | 200    | 20.00            | 1      | TO US   | 1000    | 100     | 2000         | 20.00  | Ť     | and and    | 100           | 31                      | 200        | 200     | T              | Г     | 200        | 200      | 100     |          |         |          |
| Prince of the last   | 100000    | 200    | 200.000          | 1000   | 1000    | 2000    | 1000    | 1            | 1000   | T     | 100        | 1             | 1                       |            | 100     | T              | T     | 2000       | 2000     |         | 100      |         |          |
| 141 41   | 77-107-07 |        | 47712            | ATTS.  | dilla   | 47.75   | 42.00   | 617          | -ETHD  | 57,03 | 200        | 100           | 111                     |            |         | 1              | 4000  | 40.15      | 0        | 40.05   | 4        | 0       | 4        |
| 1715 2 6 3 0   | 24-04-23  | -03.5  | 0000             | 40.09  | (0'0's  | 6000    | (0.05   | 4000         | 1902   | T     | 6.48       | 100           | 69                      | 6          | 9       |                | 1     | 1000       | 500      | 10/0    | - O.O.   | 0       | 8        |
| 1736 0-0.1   | 22-04-23  | -0.1   | 979              | 90'D-  | 800     | 40.00   | 40,83   | 40.05        | 4000   |       | 2000       | 105 <01       | 100                     | 9          | 70 H    |                |       | 929        | 40,05    | -Br.05- | -0.05    | -0,0%   | 400      |
| 11/27 0.40.5   | 13.08.11  | 40.5   | 40,00            | 40.00  | *000*   | g V     | 0.00    | Ø.65         | +0.05  |       | 5079       | 113           | 10 · Dr                 | 10         | 10      |                |       | 10.00      | 90708    | Ŷ       | 10.00    | 40.05   | 1        |
| TMT 0.6-1.0  | 23-005-21 | 100    | 4138             | 41.13  | 4000    | e e     | 1       | 100          | enits. |       | 400        | US. CEL       | 100 400                 | 107        | 10.     |                |       | 40.00      | 40.05    | +0.05   | 40.0%    | al III  | *0.0%    |
| TP18 1.413   | 25-00-21  | 403    | -trm             | 40.03  | 40.05   | +C/02   | 5,43    | OH9          | 4000   | 1     | out the    | 101           | 100                     | 101        | 101     |                |       | 10.05      | 10.05    | 4.10    | 17.75    | H       | 0        |
| THE 1.820  | 25042     | 946    | 40.05            | 40.03  | 40.05   | 40.00   | 50.05   | 50.05        | +0.05  | 1     | 6.47       | 100           | 101                     | 9          | 101     |                |       | 979        | 46.05    | 40.05   | 0.05     | 9.50    | 9779     |
| TP19 2.4.25  | 25-04-13  | 40.2   | 40.05            | +0.05  | 40.05   | 40.05   | 40.95   | 40,000       | +0.05  |       | 1          | Ī             | 102 30                  | 500        |         |                |       | 40.05      | 40.05    | 1       | +0.05    | 418     | 4105     |
| 1920 0-01  | 35-04-73  | cit    | 40.05            | 40.0k  | 40,05   | 9.19    | 60.05   | 40.05        | -5865  | 4000  | 40.00      | CR.05 CR.05   | 65 401                  | F 1008     | 5000    | 15. 10.05      | 9009  | 40.75      | 40.05    | 40.05   | 40.05    | 415     | 4 15     |
| FP21 0405  | 25-00-23  | 100    | 40.05            | +41.0% | +0.05   | 40.05   | 900     | 40.05        | +0.05  |       | 50.05      | 102 - 401     | 100                     | 100        | 9       |                |       | 40.755     | +6.05    | 1       | ×0.05    | 9119    | 40.05    |
| FP22 0-0.1   | 25-04-23  | -427   | 40.05            | 10.0%  | -60.00  | 5,15    | -40,05  | 40.05        | 40.05  | <0.05 | 50.00      | 200           | :0:                     | 0          |         |                |       | 9000       | +0.05    | -0.05   | -40.0E   | -9705   | 4/05     |
| 1723 0.405   | 25.04.23  | -01    | 40.09            | +0.05  | 10.03   | 970     | 48      | View<br>View | 416    |       | Ì          |               | 102 53                  | 100        |         |                | Ĩ     | 90'0       | +0.05    |         | 40.05    | 4008    | 4.08     |
| 1725 2.423   | 25-00-23  | 43.1   | -thin            | 40.03  | 40.05   | 10.05   | 0000    | 900          | 40.05  | 1000  | 900        | 400           | canto canto             | 1000       |         |                | 40.25 | 10.00      | 40,05    | - tu o- | 4111     | 4100    | 4.00     |
| 5726 O.S.1.0   | 25-00-33  | CUI    | en ma            | 40.03s | 40.04   | 40.04   | 40.04   | w.w.         | 1      |       |            | Ť             | cards cards             | _          |         | ĺ              | ĺ     | 40.00      | 40.05    | - EU U- | - AU UP  | - 50.00 | 40.09    |
| 2171 900   | X (be )2  | 100    | 20100            | 50.00  | Strice  | Silve   | 10.00   | - 100        |        | 0000  | CALIFE SCH | each.         | ľ                       | S 80.05    | П       | 200 2          | ľ     | 0.00       | 40.76    | 40.05   | 40.08    | Alik    | 400      |
| 100  | 1         |        | 1                | 10.00  | 1       | 17.5    | 20.00   | 100          | Г      | Г     | T          | T             | T                       | T          | Γ       | Ī              |       |            | 1        | 20.00   |          | 1       | 1        |
| 100  | 25 244 55 | 200    | 2000             | 2000   | 2000    | 1       | 2000    | 2005         | T      | Τ     | Ť          | T             | T                       | T          | T       | T              | ١     | 0.00       | 2000     |         | -        | 2000    | -        |
| 10-4 C - 4 C | 27-02-02  | 100    | 40.00            | 44.03  | 4000    | 40.00   | 67.53   | GIO.         | GID    | 5000  | 0703       | CORNEL STREET | CORP. LANGE             | 2000       | T       | 1000           | 1000  | The second | 1000     | 1       | 1000     | 11.11   |          |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 20.000    | 7      | 2000             | 1000   | 1000    | 1       |         | 1            | T      | T     | Ť          | 200           | 100                     | 1          | 2 0     | I              | ı     | 0.00       | 100      | 1       | 1        |         |          |
| 11027 3435   | X 0402    | 1.80   | 1000             | 20.00  | 20100   | 8100    | 800     | S S          | T      | Τ     | Ť          | SOF CREE      | 702                     |            | 106     | Т              | T     | 200        | 100      |         | 40.00    | 1       |          |
| 1738 0.001   | 26-Om 38  | -684   | Of 15            | SHIP   | ad) dis | 403.6%  | -0.00   | 1949         | T      | Τ     | Ť          | 100           | 202                     | 7.03       | T       | T              | I     | 10.00      | 19,7 (8) | 151 151 | - AU 101 | 4115    | All D    |
| TP26 0.4.0.5   | 35-On-21  | 199    | 24               | an we  | 20.00   | 40.66   | SUMP.   | A.M.         | Т      | Τ     | Ť          | 19            | 100                     | 100        | 20      |                |       | 10.00      | 20,00    | 20.00   | 100      | N. N.   | 100      |
| T130 0.8-1.0   | 25.00-11  | 100    | NI IV            | -61.05 | 40.00   | 45.00   | 100     | Affi         | -dim   | T     | T          | 100 - 100     | 100                     | 207        | 30      | Ι              | ľ     | 10.05      | 50.00    | 12.00   | 111      | 1       |          |
| 1000 1616  | 36.04.31  | 100    | 40.00            | ALI UK | 40.0%   | 40700   | 40.00   | 1000         | edille | edus. | COURT CO   | ASIIC COST    | 16.                     | 1          | 1135    | Т              | ľ     | 10.73      | 40.08    | 9       | 41.15    | 4       |          |
| 1941 24.25   | SALVESTA  | 100    | 40.0%            | 40.0%  | 40.05   | 20.00   | 5800    | 5115         | 5000   | T     | Ť          | 100           | 100                     | 4          | Γ       |                |       | 40.78      | 40.75    | 40.00   | 1        | 41195   | 00.00    |
| DCDI   | 25-04-23  | 109    | 10.00            | 10 PM  | 10.01   | 1000    | 899     | 10.00        | 90.00  | T     | T          | Ť             | 100                     | 9          | 101     | Т              | T     | Ť          | Т        | 10.00   | T        | 100     |          |
| TIME O'GI  | 25-06-23  | +3.1   | - SU UF          | 90'0+  | -0.05   | 9.80    | -0.05   | -0.05        | ACHIE  | Г     | -0.05      | Ť             | 10.0                    | 200        |         | 11 0.05        |       | Ť          | Г        | 40.05   | . 90.01  | 414     | 40.00    |
| 8008   |           | ×      | NC.              | W      | »C      | 2       | 380     | MC           | ¥      | NC    |            | NC.           |                         | 4          | NC. NC. |                | N.    | NC         | ž        | W       |          | NC      | MC       |
| 2000   | 25-06-25  | 100    | 100              | 1013   | 40.03   | 100.00  | 1000+   | 40000        | 100    | Т     | Strike S   | ť             | 9                       | ľ          | Γ       | Г              | Г     | t          | ľ        | 43.00   | 1        | - EE 00 | all the  |
| D'20 0-0.1   | 25-04-13  | 101    | 40.05            | \$0.0s | 16,05   | 45.85   | 40.35   | 90.09        | 50.05  | 50.05 | Ť          | Ť             | 13                      | Ť          | Т       | Т              | ľ     | Ť          | T        | - S0.09 | 10.0     | 60.05   | 1,035    |
| RPD W  |           | ¥      | 3K               | KC     | Ж       | ¥       | Ж       | NC           | HC     |       |            | ¥             | ×                       |            | ×       | NC NC          | ×     | ¥          | ž        | ¥       | MC       | ¥       | MC       |
| 0000   | 25-00-23  | 100    | 40,05            | +0.25  | 40,05   | 40,05   | -90'00  | -6.05        | 4000   |       | t          | f             | ř                       | 100        | Dr 9    | П              | П     | ľ          | 5000     | 90'09   | 50.00    | 40.05   | 4005     |
| TPS0 2425  | 25-00-23  | 1931   | 10,156<br>10,156 | 40.05  | 40,05   | 40.08   | 50.05   | 40.05        | SUDS   | 50.05 | 5003       | 9             | 65                      | 1          |         |                | 40.05 | 9          | 20       | 40.09   | en fils  | 47.05   | 40.05    |
| RPD W  | Same Same | ¥      | J.C              | ¥      | »c      | 36      | HC      | NC           | ¥      |       | H          | ¥             | ¥                       | ¥          | ¥       | ž.             |       | NC         | Se .     | ž       | DIG.     | ¥       | MC       |
|  |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         | ĺ              |       |            |          |         |          |         |          |
| Reforences   |           |        |                  |        |         |         |         |              |        |       |            |               |                         |            |         |                |       |            |          |         |          |         |          |

erbustur, Bustons invocement protection (association of Ste Contamination) Measure (IRPM) (NUP., 2010).

Hi.—Robb Invarigation Level
III. Heavildenin

# **Attachment 4**

**Laboratory Reports** 

| Dilhorn House, 2 B                                   | ulwer St, Perth WA                               | 600<br>F: (08) 9227 2699 |           |                  | environmental                              | ronmental    |                        | Sheet 1 of 1 |   |
|--|--|--------------------------|-----------|------------------|--|--------------|------------------------|--------------|---|
| Job ID: MSG2023-003                                  |  |                          |           |                  | Results Required Date: Standard Turnaround | Date: Stan   | dard Turnarou          | pui          |   |
|  |  |                          |           |                  | tab / Lab Quote No.:                       | .:.          |                        |              |   |
|  |  |                          |           |                  | Purchase Order No.: -                      | - :-0        |                        |              |   |
| COMMENTS:  |  |                          |           |                  | CPs (OW3)                                  | res-in (DM.F | ststam yveati<br>(SWW) | di sorsadA   | Nates/LOR/ Special Requests   |
| Lab Sample ID  | Aurora Sample ID                                 | type                     | Date      | container        | 0  | нят          | 4                      |              | PUC 2501  |
|  | TP01 1.8-1.9                                     | Sail                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP02_0.4-0.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | *                      |              |   |
|  | TP03_1.4-1.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP04_0.0-0.1                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP04_1.4-1.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP05_1.8-2.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP05_0-0.1                                       | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP06_0.4-0.5                                     | Soil                     | 24-Oct 23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP06_2.4-2.5                                     | Soil                     | 25-Oct-23 | Jar              | ×  | ×            | ĸ                      |              |   |
|  | TP07_0.8-1.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP07_2.9-3.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | х                      |              |   |
|  | TP08 0-0.1                                       | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP08_0.4-0.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP09 0.81.0                                      | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP10_1.4-1.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      | ×            |   |
|  | TP11_1.8-2.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              | d of the state of |
|  | TP11_0.4-0.5                                     | Soil                     | 25-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP12_0.0-0.1                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP12_1.4-1.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | x                      |              |   |
|  | TP13_0.0.0.1                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | x                      |              |   |
|  | TP13_0.4-0.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | x                      |              |   |
|  | TP14_0.8-1.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP15_1.4-1.5                                     | Soil                     | 24-Oct-23 | Jar              | ×  | ×            | ×                      |              |   |
|  | TP15_2.8-3.0                                     | Soil                     | 24-Oct-23 | Jar              | ×  |              | ×                      |              |   |
| Relinquished by: 6.7. Sample Condition Upon Receipt: | Upon Receipt:                                    | +                        | Da        | Date 25/10/2023  | Received by:                               |              |                        | ă            | Date: 26/10/23  |
| AURORA ENVIRON                                       | AURORA ENVIRONMENTAL OPERATIONAL MANUAL/Projects | IAI / Projects           |           | PRE-7/ Version 1 |  |              | Pag2/3                 |              |   |
| Authorizad But Mark Chanbard                         | Collection                                       |                          |           |                  |  |              |                        |              |   |

| Job ID: MSG2023-003                                       | F: (             | T; (08) 9227 2600 F: (08) 9227 2699 |                           |                  | env<br>Serv   | environmental<br>ASTESS - APPRES - APPLY |                       | Sheet 1 of 1 |                             |
|---|------------------|-------------------------------------|---------------------------|------------------|---|--|-----------------------|--------------|-----------------------------|
|   | 03               | 5.0                                 |                           |                  | Results Required Date: Standard Turnaround Lab / Lab Quote No.: | Date: Stand                              | dard Turnaro          | pund         |                             |
|   |                  | <b>-</b> 68                         |                           | Šī.              | Purchase Order No.:   |  |                       |              |                             |
| COMMENTS:   |                  |                                     |                           |                  | CPs (OW3)   | PEEX-N (OMI-                             | leavy metala<br>(SWM) | GI sossedA   | Notes/LOR/ Special Requests |
| Lab Sample ID A   | Aurora Sample ID | type                                | Date                      | container        | 0   | нят                                      | н                     |              |                             |
|   | 1716_0-0.1       | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP17_0.4-0.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP17_0.8-1.0     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP18_1.4-1.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP19_1.8-2.0     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP19_2.4-2.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
| 1   | TP20_0-0.1       | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP21_0.45        | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP21_0.8-1.0     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP22_0-0.1       | Soil                                | 25-Oct-23                 | Jac              | ×   | ×  | ×                     |              |                             |
|   | TP23_0.4-0.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP23_2.4-2.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP25_0-0.1       | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP25_0.4-0.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     | ×            |                             |
|   | TP26_0.8-1.0     | Soil                                | 25-0ct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP26_1.4-1.5     | Soil                                | 25-0ct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP27_1.5-2.0     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP27_2.4-2.5     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP28 0.0-0.1     | Soil                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP28_0.4-0.5     | licS                                | 25-Oct-23                 | Jar              | ×   | ×  | ×                     |              |                             |
|   | TP29_0.8-1.0     | Soil                                | 25-Oct-23                 | Jar              | х   | ×  | ×                     |              |                             |
|   |                  |                                     | 25-Oct-23                 | Jar              | ×   |  | ×                     |              |                             |
| Relinquished by:<br>Sample Condition Up                   |                  |                                     | Date:                     | Enorloyse =      | Received by:  |  |                       | ۵            | Date:                       |
| AURORAENVIRONME   | - Townson        | 93-                                 |                           | PRF-7/ Version 1 |   |  | Pag 2/3               |              |                             |
| Authorised by, Mark Shepherd<br>Revision Date: 10/01/2014 | epherd<br>114    |                                     | uscontrolled when printed | when printed     |   |  |                       |              |                             |

| Lab Sample ID Aurora Sample ID TP30_24-2.5 QC01 QC02 QC03 QC03 | type Date Soil 25-Oct-23 Soil 25-Oct-23 Soil 25-Oct-23 Soil 25-Oct-23 | container<br>Jar<br>Jar<br>Jar | Results Required Date: Standard Turnaround  Lab / Lab Quote No.:  Purchase Order No.:  A X X X X X X X X X X X X X X X X X X | Stand Stand Cown.   | Turnar (MWZ) x x x |       | Notes/LOR/ Special Requests |
|--|---|--------------------------------|--|---------------------|--------------------|-------|-----------------------------|
| 9  |   | container<br>Jar<br>Jar<br>Jar | Number of Cows (OW3)   | TMO N-X318 HBL COMT | (SWM)              |       | es/LOR/ Special Requests    |
|  |   | container<br>Jar<br>Jar<br>Jar | 0 * * * *  | HRT × × × ×         |                    |       |                             |
| 1P30_24-2.5<br>QC01<br>QC02<br>QC03                            |   | Jar<br>Jar<br>Jar              | * * * *  | × × × ×             | x x x              |       |                             |
| QC01<br>QC03   |   | Jar<br>Jar                     | * * *  | × × ×               | × ×                |       |                             |
| QC03   |   | Jar                            | ××   | ××                  | ×                  |       |                             |
| QC03   |   | Jar                            | ×  | ×                   |                    |       |                             |
|  |   |                                |  |                     | ×                  |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
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|  |   |                                |  | T                   | +                  |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
|  |   |                                |  |                     |                    |       |                             |
| Relinquish<br>Sample Co  |   | Date: 25/10/2023               | /2023 Received by:   |                     |                    | Date: |                             |
| AURORA E   |   | PNF-7/ Version 1               |  |                     | Pag2/3             |       |                             |
| Authorised<br>Revision D                                       | DIACONTA  | uncontrolled when printed      |  |                     |                    |       |                             |

Re: Eurofins Sample Receipt Advice - Report 1038509 : Site MSG2023-003

Thu 10/26/2023 9:48 PM

**CAUTION:** EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins. Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi,

Please hold analysis of TP21\_0.8-1.0 and TP26\_1.4-1.5 and analyse samples TP24\_0.8-1.0 and TP24\_1.4-1.5.

Thanks,

#### Get Outlook for iOS

From: envirosamplewa@eurofins.com <envirosamplewa@eurofins.com>

Sent: Thursday, October 26, 2023 4:07:37 PM

**To:** geri.pethebridge < geri.pethebridge@auroraenvironmental.com.au> **Cc:** brad.dermody < brad.dermody@auroraenvironmental.com.au>

Subject: Eurofins Sample Receipt Advice - Report 1038509 : Site MSG2023-003

Attention

Extra samples: TP24\_0.8-1.0 and TP24\_1.4-1.5. Please advise

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

#### View our latest EnviroNotes





## Certificate of Analysis

Aurora Environmental (Perth) P/L **Dilhorn House 2 Bulwer St** Perth **WA 6000** 



NATA Accredited **Accreditation Number 2377** Site Number 2370

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

Attention:

1038509-AID Report

**Project Name** 

Project ID MSG2023-003 Oct 26, 2023 **Received Date** Nov 01, 2023 **Date Reported** 

#### Methodology:

Asbestos Fibre Identification

Conducted in accordance with the Australian Standard AS 4964 - 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral **Fibres** 

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the

optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a subsampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-

sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestoscontaining material (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering

matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting

(LOR), per se, Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 %" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Report Number: 1038509-AID



Project Name

Date Sampled Project ID

Report

MSG2023-003

Oct 25, 2023 1038509-AID

| Sampled Sample Description Result | Oct 25, 2023 Approximate Sample 12g / 60x30x4mm Organic fibre detected.  Oct 25, 2023 Sample consisted of: Grey layered fibre cement No trace asbestos detected. | Approximate Sample 8g / 40x35x4mm Organic fibre detected. Organic fibre detected. No race asbestos detected. |
|-----------------------------------|--|--|
| Date Sampled                      | Oct 25, 2023 Si  | Oct 25, 2023 S.  |
| Eurofins Sample Date              | 23-0c0063822   | 23-Oc0063823   |
| Client Sample ID                  | TP40_1.4-1.5   | TP25_0.4-0.5   |

Page 2 of 8 Report Number: 1038509-AID



#### Sample History

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

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

 Description
 Testing Site
 Extracted
 Holding Time

 Asbestos - LTM-ASB-8020
 Welshpool
 Oct 26, 2023
 Indefinite

NZBN: 9429048024954

Section S

email. EnviroSales@eurofins.com

web: www.eurofins.com.au

Aurora Environmental (Perth) P/L

Company Name:

Address:

Dilhom House 2 Bulwer St

WA 6000

Perth

MSG2023-003

Project Name: Project ID:

Perth 49-48 Banksia Roed Welkpool WA 6106 Tel: 461 8 8253 4444 NATA# 2377 Site# 2370

198 Lewellen Street 11 Grovedale 0 VIC 3216 D Tel: +61 3564 5000 11 NATAE 1261 Site# 26403 S Melbourne

6 Monterey Road

1 Danderong South

VIC 317

74 + 61.3 8564 5000 N

NATA# 1264

Site# 1264

Girraween NSW 2145 7 Telt +61 2 9900 8400 Tel NATA# 1261 Site# 18217

ACT 2911 C4 +61 2 6113 8091 7 MATA# 1261 S16# 25466

Muranie QLD 4172 Tel: +61 13 NATA# 126 Site# 20784

038509

Report #: Phone:

rood Place 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 902 4600 NATA# 1261 Sile# 25079 & 25289 3902 4600

Auckland C 35 Offorke Road 41, Pennose, Auckland 1061 C Tel: +64 9 526 4551 Tr JANZ# 1327

Christchurch Tauranga 43 Detroit Drive 1277 Cameron Road, Rolleston, Gate Pa. Christchurch 7675 Tauranga 3112 61 fei: +64.9 343 S207 Tei: +64.9 525 0568 IANZ\$ 1290 IANZ\$ 1402

Nov 1, 2023 4 Day

Oct 26, 2023 12:00 PM

Received:

Due:

Geri Pethebridge Contact Name: Priority:

Eurofins Analytical Services Manager: Natalle Hill

Sample Detail

Perth Laboratory - NATA # 2377 Site # 2370

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L23-Oc0063462 L23-Oc0063463 L23-Oc0063464 L23-Oc0063465

LAB ID

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External Laboratory

| Matrix               | Soil                      |   |
|----------------------|---------------------------|---|
| Sampling<br>Time     |                           | 100                                     |
| Sample Date Sampling | Oct 24, 2023              |   |
| Sample ID            | TP01_1,8-1,9 Oct 24, 2023 | 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| No                   |                           | -                                       |

Sol TP02 0.4-0.5 Oct 24, 2023 TP03 14-1.5 Oct 24, 2023

Sol Oct 24, 2023 TP04\_0,0-0,1

Sol Soil TP04 1,4-1,5 Oct 24, 2023 Oct 24, 2023 TP05 1.8-2.0

Soil Sol Oct 24, 2023

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L23-Oc0063467

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Soil TP06 2.4-2.5 Oct 25, 2023 TP06 0.4-0.5 Oct 24, 2023 TP05\_0-0.1

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L23-Oc0063470 L23-Oc0063472 L23-Oc0063473 L23-Oc0063469 L23-Oc0063471 L23-Oc0063474 Soil Sol Sol TP07\_2.9-3.0 Oct 24, 2023 TP07\_0.8-1.0 | Oct 24, 2023 Oct 24, 2023 TP08 0.4-0.5 Oct 24, 2023 TP08 0-0.1

Eurofins ARL 46-48 Banksta Road, Weistrpool, WA, Australia, 6106 ABN : 91 05 0159 898 Telephone: +61 8 6253 4444

Page 4 of 9 Report Number: 1038509-AID

Auckland 35 Offorke Road NZBN: 9429048024954

Eurofins Environment Testing Australia Pty Ltd

Section S

Eurofins ARL Pty Ltd

Perth 49-48 Banksia Roed Welthool WA 6106 Tel: 461 8 8253 4444 NATA# 2377

Melbourne 6 8 Monterey Road 115 Danderong South 6 NC 375 Tell 161 38564 5000 Tr NATA# 1264 Ste# 1264 S

Site# 2370

email. EnviroSales@eurofins.com

Company Name:

Address:

web: www.eurofins.com.au

Aurora Environmental (Perth) P/L

Dilhom House 2 Bulwer St WA 6000 Perth

Project Name: Project ID:

MSG2023-003

Sydney 179 Magowar Road 198 Lewellen Street 11 Grovedale 0 VIC 3216 D Tel: +61 3564 5000 11 NATAE 1261 Site# 26403 S

3902 4600 ACT 2911 C4 +61 2 6113 8091 7 MATA# 1261 S16# 25466 Girraween NSW 2145 7 Telt +61 2 9900 8400 Tel NATA# 1261 Site# 18217

rood Place 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 902 4600 NATA# 1261 Muranie QLD 4172 Tel: +61 13 NATA# 126 Site# 20784

Sile# 25079 & 25289

Christchurch Tauranga 43 Detroit Drive 1277 Cameron Road, Rolleston, Gate Pa. Christchurch 7675 Tauranga 3112 61 fei: +64.9 343 S201 Tei: +64.9 525 0568 ANZE 1290 ANZE 1402 Oct 26, 2023 12:00 PM Penrose, R Auckland 1061 C Tel: +64 9 526 4551 T JANZ# 1327 V Received:

Nov 1, 2023 4 Day Priority:

Due:

038509

Order No.:

Report #: Phone:

Geri Pethebridge Contact Name:

Eurofins Analytical Services Manager: Natalie Hill

Sample Detail

Perth Laboratory - NATA # 2377 Site # 2370

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External Laborator

Soil TP10 1.4-1.5 Oct 24, 2023 Oct 24, 2023 TP09 0.8-1.0

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L23-Oc0063488 L23-Oc0063489

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TP15 2.8-3.0 Oct 24, 2023 TP16 0-0.1

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Soll Soil Sol Soil Oct 25, 2023 TP17\_0.4-0.5 Oct 25, 2023 TP17 0.8-1.0 Oct 25, 2023

TP18 1,4-1,5 Oct 25, 2023

Eurofins ARL 46-48 Banksta Road, Weistrpool, WA, Australia, 6106 ABN : 91 05 0159 898 Telephone: +61 8 6253 4444

Report Number: 1038509-AID

Page 5 of 9

Auckland 35 Offorke Road NZBN: 9429048024954

Eurofins Environment Testing Australia Pty Ltd Eurofins ARL Pty Ltd

Section S

Perth 49-48 Banksia Roed Welkpool WA 6106 Tel: 461 8 8253 4444 NATA# 2377

Melbourne

8 Monterey Road

1 Danderong South

VIC 317

1d +61.3 8564 5000 N

NATA# 1264

Site# 1264

Site# 2370

email. EnviroSales@eurofins.com

Company Name:

Address:

web: www.eurofins.com.au

Aurora Environmental (Perth) P/L

Dilhom House 2 Bulwer St WA 6000 Perth

Project Name: Project ID:

MSG2023-003

Girraween NSW 2145 7 Telt +61 2 9900 8400 Tel NATA# 1261 Site# 18217 Sydney 179 Magowar Road 198 Lewellen Street 11 Grovedale 0 VIC 3216 D Tel: +61 3564 5000 11 NATAE 1261 Site# 26403 S

rood Place 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 902 4600 NATA# 1261 3902 4600

Muranie QLD 4172 Tel: +61 13 NATA# 126 Site# 20784

ACT 2911 C4 +61 2 6113 8091 7 MATA# 1261 S16# 25466

038509

Order No.:

Report #: Phone:

Penrose, R Auckland 1061 C Tel: +64 9 526 4551 T JANZ# 1327 V Sile# 25079 & 25289

Christchurch Tauranga 43 Detroit Drive 1277 Cameron Road, Rolleston, Gate Pa. Christchurch 7675 Tauranga 3112 61 fei: +64.9 343 S201 Tei: +64.9 525 0568 IANZ\$ 1290 IANZ\$ 1402

Oct 26, 2023 12:00 PM Nov 1, 2023 4 Day Received: Priority:

Due:

Geri Pethebridge Contact Name: Eurofins Analytical Services Manager: Natalie Hill

Sample Detail

Perth Laboratory - NATA # 2377 Site # 2370

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Soll Oct 25, 2023 TP21\_0.8-1.0

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Sol Sol Oct 25, 2023 Oct 25, 2023

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L23-Oc0063500 L23-Oc0063503 L23-Oc0063504 L23-Oc0063499 L23-Oc0063502 L23-Oc0063501 Soil Sol Soil TP26 0.8-1.0 Oct 25, 2023 TP26\_1.4-1.5 Oct 25, 2023 TP27\_1.5-2.0 Oct 25, 2023 TP27 2.4-2.5 Oct 25, 2023 TP28 0.0-0.1 Oct 25, 2023

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Eurofins ARL 46-48 Banksta Road, Weistrpool, WA, Australia, 6106 ABN : 91 05 0159 898 Telephone: +61 8 6253 4444

Report Number: 1038509-AID

Page 6 of 9

NZBN: 9429046024954

Eurofins Environment Testing Australia Pty Ltd

Section 18

Eurofins ARL Pty Ltd

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Perth 48-48 Banksia Road Welstrool WA 5100 Tel-161 8253 444 NATA# 2377 Site# 2370

 1038509 D8 9227 2600 Report #: Phone:

Order No.:

Aurora Environmental (Perth) P/L

Company Name:

Address:

Offhorn House 2 Bulwer St

WA 6000

Perth

MSG2023-003

Project Name: Project ID:

38 9227 2699

Auckland Christchurch Tauranga 35 O'Torke Road 43 Defroit Drive 1277 Cameron Road, Penrose, Rolleston, Gate Pa, Auckland 1081 Christchurch 7675 Tauranga 3112 Christchurch 7675 Tauranga 3112 Tel: +04 9 526 4561 Tel: +04 3 345 5201 Tel: +64 9 526 568 JANZ# 1290 JANZ# 1402 New castle New Flece IZ Frost Drive Mayned West NSW 2304 2 Tell-46 1 2 4968 8448 5902 4600 NATA# 1261 261 Sile# 25079 & 25289 3902 4600

Muramie QLD 4172 Tel: +61 1390 NATA# 1261 Site# 20784

ACT 2911 C4 +61 2 6113 8091 T MATA# 1261 Slie# 25466

Oct 26, 2023 12:00 PM Nov 1, 2023 4 Day Received: Priority: Due:

Contact Name:

Geri Pethebridge

Eurofins Analytical Services Manager: Natalie Hill

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| Per | th Laboratory - I         | Perth Laboratory - NATA # 2377 Site # 2370 | 370                   |               | ×   | ×  | ×  | <  | ×  |
|-----|---------------------------|--|-----------------------|---------------|-----|----|----|----|----|
| Ext | External Laboratory       |  |                       |               |     |    |    |    |    |
| 44  | TP28 0.4-0.5 Oct 25, 2023 | Oct 25, 2023                               | Sol                   | L23-Oc0063505 | -   |    | ×  | ×  | ×  |
| 45  | TP29 0.8-1.0 Oct 25, 2023 | Oct 25, 2023                               | Soil                  | L23-Oc0063506 |     |    | ×  | ×  | ×  |
| 46  | TP29_1.4-1.5 Oct 25, 2023 | Oct 25, 2023                               | Soil                  | L23-Oc0063507 |     |    | ×  | ×  | ×  |
| 47  | TP30 2.4-2.5              | Oct 25, 2023                               | Soil                  | L23-Oc0063508 |     |    | ×  | ×  | ×  |
| 48  | QC01                      | Oct 25, 2023                               | Soll                  | L23-Oc0063509 |     |    | ×  | ×  | ×  |
| 49  | QC02                      | Oct 25, 2023                               | Soil                  | L23-Oc0063510 | -33 | -× | ×  | ×  | ×  |
| 20  | QC03                      | Oct 25, 2023                               | Soil                  | L23-Oc0063511 |     |    | ×  | ×  | ^  |
| 51  | TP24 0.8-1.0 Oct 25, 2023 | Oct 25, 2023                               | Sol                   | L23-Oc0063512 |     |    | ×  | ×  | ×  |
| 25  | TP24 1.4-1.5 Oct 25, 2023 | Oct 25, 2023                               | Soil                  | L23-Oc0063513 |     |    | ×  | ×  | ×  |
| 53  | TP10_1.4-1.5 Oct 25, 2023 | Oct 25, 2023                               | Building<br>Materials | L23-Oc0063822 | ×   |    |    |    |    |
| 54  | TP25_0.4-0.5 Oct 25, 2023 | Oct 25, 2023                               | Bullding<br>Materials | L23-0c0063823 | ×   |    |    |    |    |
| Tes | Test Counts               | . N  |                       |               | 6   | 2  | 50 | 60 | 50 |

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Eurofins ARL 46-48 Banksta Road, Weistrpool, WA, Australia, 6106 ABN : 91 05 0159 898 Telephyne: +61 8 6253 4444

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Page 7 of 9 Report Number: 1038509-AID



#### Internal Quality Control Review and Glossary General

QC data may be available on request.

All soil results are reported on a dry basis, unless otherwise stated,

Samples were analysed on an 'as received' basis

Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results.

This report replaces any interim results previously issued.

#### **Holding Times**

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (OS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) Airborne fibre filter loading as Fibres (N) per Fields counted (n) Airborne fibre reported concentration as Fibres per millillitre of air drawn over the sampler membrane (C) % w/w: F/fld g, ko Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)

Concentration in grams per kilogram Volume, e.g., of air as measured in AFM (V = r x t) g/kg L, mL

Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period

min

Calculations

Airborne Fibre Concentration:  $= (-) \times (-) \times (7) \times (7) = \times (-) \times (7)$ 

Asbestos Content (as asbestos): % / = (-x-)

Weighted Average (of asbestos): % =  $\sum^{\frac{(-x^{-1})}{2}}$ 

Terms

Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 (P<sub>A</sub>).

Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the **АСМ** 

NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

Asbestos Fines, Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil, Considered under the NEPM as equivalent to "non-bonded / friable". AF

AFM Airborne Fibre Monitoring, e.g. by the MFM.

Amosite Asbestos Detected, Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. Amosite

Australian Standard. AS

Asbestos Content (as asbestos) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).

Chrysotile Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.

coc Chain of Custody.

Crocidolite Crocidolite Asbestos Detected, Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos, Identified in accordance with AS 4964-2004.

Dry Sample is dried by heating prior to analysis.

DS Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, atthough FA may be more difficult to visibly distinguish and may be assessed as AF. FA

Fibre Count Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003

Fibre Identification, Unequivocal identification of asbestos fibres according to AS 4964-2004, includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos, Fibre ID Friable Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is

outside of the laboratory's remit to assess degree of friability.

HSG248 UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021),

HSG264 UK HSE HSG264, Asbestos: The Survey Guide (2012).

ISO (also ISO/IEC) International Organization for Standardization / International Electrotechnical Commission.

K Factor Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyeplece

graticule area of the specific microscope used for the analysis (a),

Limit of Reporting. LOR

NEPM (also ASC NEPM)

MFM (also NOHSC:3003) Membrane Filter Method. As described by the Australian Government National Occupational Health and Salety Commission, Guidance Note on the Membrane

Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC 3003(2005)]. National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).

Organic Organic Fibres Detected, Organic may refer to Natural or Man-Made Polymeric Fibres, Identified in accordance with AS 4964-2004,

PCM Phase Contrast Microscopy, As used for Fibre Counting according to the MFM,

PLM Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. Sampling Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.

SME Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.

SRA Sample Receipt Advice.

Trace Analysis Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix,

UK HSE HSG United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.

LIME Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004.

May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos,

WA DOH Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis

Weighted Average Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).

Report Number: 1038509-AID



#### Comments

#### Sample Integrity

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

#### Asbestos Counter/Identifier:



Senior Analyst-Asbestos

Authorised by:



Senior Analyst-Asbestos



Final Report - this report replaces any previously issued Report

- Indicates Not Requested

Date Reported: Nov 01, 2023

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

Measurement uncertainty of test data is available on request

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

Report Number: 1038509-AID



Aurora Environmental (Perth) P/L Dilhorn House 2 Bulwer St Perth WA 6000





NATA Accredited Accreditation Number 2377 Site Number 2370

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

Attention:

Report 1038509-S-V2

Project name

Project ID MSG2023-003
Received Date Oct 26, 2023

| Client Sample ID                           |           |       | TP01 1.8-1.9 | TP02 0.4-0.5 | TP03 1.4-1.5 | TP04 0.0-0.1 |
|--|-----------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix                              |           |       | Soil         | Soil         | Soil         | Soil         |
| Sumple many                                |           |       | L23-         | L23-         | L23-         | L23-         |
| Eurofins Sample No.                        |           |       | Oc0063462    | Oc0063463    | Oc0063464    | Oc0063465    |
| Date Sampled                               |           |       | Oct 24, 2023 | Oct 24, 2023 | Oct 24, 2023 | Oct 24, 2023 |
| Test/Reference                             | LOR       | Unit  |              |              |              |              |
| Total Recoverable Hydrocarbons - 1999 NEPM | Fractions |       |              |              |              |              |
| TRH C6-C9                                  | 20        | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C10-C14                                | 20        | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C15-C28                                | 50        | mg/kg | < 50         | 51           | 52           | 69           |
| TRH C29-C36                                | 50        | mg/kg | 70           | 63           | 68           | 90           |
| TRH C10-C36 (Total)                        | 50        | mg/kg | 70           | 114          | 120          | 159          |
| ВТЕХ                                       |           |       |              |              |              |              |
| Benzene                                    | 0.1       | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Toluene                                    | 0.1       | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Ethylbenzene                               | 0.1       | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| m&p-Xylenes                                | 0.2       | mg/kg | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| o-Xylene                                   | 0.1       | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Xylenes - Total*                           | 0.3       | mg/kg | < 0.3        | < 0.3        | < 0.3        | < 0.3        |
| BTEX                                       |           |       |              |              |              |              |
| 4-Bromofluorobenzene (surr.)               | 1         | %     | 87           | 86           | 85           | 89           |
| Total Recoverable Hydrocarbons - 2013 NEPM | Fractions |       |              |              |              |              |
| Naphthalene <sup>N02</sup>                 | 0.5       | mg/kg | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2)N01      | 50        | mg/kg | < 50         | < 50         | < 50         | < 50         |
| TRH C6-C10                                 | 20        | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C6-C10 less BTEX (F1)N04               | 20        | mg/kg | < 20         | < 20         | < 20         | < 20         |
| Organochlorine Pesticides                  |           |       |              |              |              |              |
| Chlordanes - Total                         | 0.1       | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| 4.4'-DDD                                   | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDE                                   | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDT                                   | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| a-HCH                                      | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Aldrin                                     | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| b-HCH                                      | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| d-HCH                                      | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Dieldrin                                   | 0.05      | mg/kg | 0.33         | < 0.05       | 0.48         | 0.57         |
| Endosulfan I                               | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan II                              | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan sulphate                        | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin                                     | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin aldehyde                            | 0.05      | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |



| Client Sample ID                                |       |       | TP01_1.8-1.9      | TP02_0.4-0.5      | TP03_1.4-1.5      | TP04_0.0-0.1      |
|---|-------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                   |       |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                             |       |       | L23-<br>Oc0063462 | L23-<br>Oc0063463 | L23-<br>Oc0063464 | L23-<br>Oc0063465 |
| Date Sampled                                    |       |       | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                  | LOR   | Unit  |                   |                   |                   |                   |
| Organochlorine Pesticides                       |       |       |                   |                   |                   |                   |
| Endrin ketone                                   | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                 | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor                                      | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                              | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                               | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                    | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene                                       | 0.5   | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                    | 0.05  | mg/kg | 0.33              | < 0.05            | 0.48              | 0.57              |
| DDT + DDE + DDD (Total)*                        | 0.05  | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                   | 0.1   | mg/kg | 0.33              | < 0.1             | 0.48              | 0.57              |
| Vic EPA IWRG 621 Other OCP (Total)*             | 0.1   | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                      | 1     | %     | 66                | 70                | 77                | 121               |
| Tetrachloro-m-xylene (surr.)                    | 1     | %     | 74                | 68                | 62                | 94                |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac | tions |       |                   |                   |                   |                   |
| TRH >C10-C16                                    | 50    | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                    | 100   | mg/kg | < 100             | < 100             | < 100             | 130               |
| TRH >C34-C40                                    | 100   | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                           | 100   | mg/kg | < 100             | < 100             | < 100             | 130               |
| Heavy Metals                                    |       |       |                   |                   |                   |                   |
| Arsenic   | 2     | mg/kg | 8.7               | 3.6               | 5.1               | 3.7               |
| Cadmium   | 0.1   | mg/kg | 0.4               | 0.1               | < 0.1             | 0.1               |
| Chromium  | 1     | mg/kg | 17                | 7.4               | 8.7               | 9.0               |
| Copper  | 1     | mg/kg | 18                | 9.1               | 10.0              | 7.9               |
| Lead  | 1     | mg/kg | 55                | 22                | 26                | 23                |
| Mercury   | 0.02  | mg/kg | 0.12              | 0.05              | 0.06              | 0.06              |
| Nickel  | 1     | mg/kg | 3.0               | 1.8               | 2.1               | 1.8               |
| Zinc  | 5     | mg/kg | 260               | 83                | 150               | 330               |
| Sample Properties                               |       |       |                   |                   |                   |                   |
| % Moisture                                      | 1     | %     | 6.4               | 4.2               | 7.3               | 7.6               |

| Client Sample ID                                 |      |       | TP04_1.4-1.5              | TP05_1.8-2.0              | TP05_0-0.1                | TP06_0.4-0.5              |
|--|------|-------|---------------------------|---------------------------|---------------------------|---------------------------|
| Sample Matrix Eurofins Sample No.                |      |       | Soil<br>L23-<br>Oc0063466 | Soil<br>L23-<br>Oc0063467 | Soil<br>L23-<br>Oc0063468 | Soil<br>L23-<br>Oc0063469 |
| Date Sampled                                     |      |       | Oct 24, 2023              | Oct 24, 2023              | Oct 24, 2023              | Oct 24, 2023              |
| Test/Reference                                   | LOR  | Unit  |                           |                           |                           |                           |
| Total Recoverable Hydrocarbons - 1999 NEPM Fract | ions |       |                           |                           |                           |                           |
| TRH C6-C9  | 20   | mg/kg | < 20                      | < 20                      | < 20                      | < 20                      |
| TRH C10-C14                                      | 20   | mg/kg | < 20                      | < 20                      | < 20                      | < 20                      |
| TRH C15-C28                                      | 50   | mg/kg | < 50                      | < 50                      | < 50                      | < 50                      |
| TRH C29-C36                                      | 50   | mg/kg | < 50                      | < 50                      | < 50                      | < 50                      |
| TRH C10-C36 (Total)                              | 50   | mg/kg | < 50                      | < 50                      | < 50                      | < 50                      |
| BTEX   |      |       |                           |                           |                           |                           |
| Benzene  | 0.1  | mg/kg | < 0.1                     | < 0.1                     | < 0.1                     | < 0.1                     |
| Toluene  | 0.1  | mg/kg | < 0.1                     | < 0.1                     | < 0.1                     | < 0.1                     |
| Ethylbenzene                                     | 0.1  | mg/kg | < 0.1                     | < 0.1                     | < 0.1                     | < 0.1                     |
| m&p-Xylenes                                      | 0.2  | mg/kg | < 0.2                     | < 0.2                     | < 0.2                     | < 0.2                     |
| o-Xylene   | 0.1  | mg/kg | 0.1                       | < 0.1                     | < 0.1                     | < 0.1                     |
| Xylenes - Total*                                 | 0.3  | mg/kg | < 0.3                     | < 0.3                     | < 0.3                     | < 0.3                     |



|   |        |                |                   |                   |                   | 1                 |
|---|--------|----------------|-------------------|-------------------|-------------------|-------------------|
| Client Sample ID                                  |        |                | TP04_1.4-1.5      | TP05_1.8-2.0      | TP05_0-0.1        | TP06_0.4-0.5      |
| Sample Matrix                                     |        |                | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |        |                | L23-<br>Oc0063466 | L23-<br>Oc0063467 | L23-<br>Oc0063468 | L23-<br>Oc0063469 |
| Date Sampled                                      |        |                | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                    | LOR    | Unit           |                   |                   |                   |                   |
| BTEX  |        |                |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1      | %              | 84                | 82                | 86                | 82                |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac   | ctions |                |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5    | mg/kg          | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50     | mg/kg          | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20     | mg/kg          | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20     | mg/kg          | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         |        |                |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1    | mg/kg          | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| а-НСН   | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH   | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH   | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin  | 0.05   | mg/kg          | 0.53              | 0.35              | 0.35              | < 0.05            |
| Endosulfan I                                      | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                     | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                               | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                   | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                                     | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                   | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor  | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                                | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                                 | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                      | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene   | 0.5    | mg/kg          | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                      | 0.05   | mg/kg          | 0.53              | 0.35              | 0.35              | < 0.05            |
| DDT + DDE + DDD (Total)*                          | 0.05   | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1    | mg/kg          | 0.53              | 0.35              | 0.35              | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1    | mg/kg          | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                        | 1 1    | %              | 94                | 104               | 83                | 74                |
| Tetrachloro-m-xylene (surr.)                      | 1 1    | %              | 78                | 85                | 91                | 98                |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac   |        | m= = /1 · -    | . 50              |                   | - 50              | . 50              |
| TRH >C16 C24                                      | 50     | mg/kg          | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34 TRH >C34-C40                         | 100    | mg/kg          | < 100<br>< 100    | < 100<br>< 100    | < 100<br>< 100    | < 100<br>< 100    |
| TRH >C34-C40<br>TRH >C10-C40 (total)*             | 100    | mg/kg          | < 100             | < 100             | < 100             | < 100             |
| Heavy Metals                                      | 100    | mg/kg          | <u> </u>          | <u> </u>          | > 100             | <u> </u>          |
|   | 2      | malka          | 26                | 2.2               | 2.9               | 3.1               |
| Arsenic Cadmium                                   | 0.1    | mg/kg<br>mg/kg | 3.6<br>0.1        | < 0.1             | < 0.1             | < 0.1             |
| Chromium  | 1      | mg/kg          | 7.6               | 5.3               | 6.6               | 8.8               |
|   | 1      | mg/kg          | 9.5               | 8.3               | 8.2               | 3.8               |
| Copper<br>Lead                                    | 1      | mg/kg          | 20                | 18                | 23                | 15                |
| Mercury   | 0.02   | mg/kg          | 0.07              | 0.05              | 0.05              | 0.04              |
| Nickel  | 1      |                | 1.4               | 1.3               | 1.8               | < 1               |
|   | 5      | mg/kg          | 330               | 160               | 71                | 150               |
| Zinc  | J      | mg/kg          |                   | 100               | 1 1               | 100               |



| Client Sample ID    |     |      | TP04_1.4-1.5      | TP05_1.8-2.0      | TP05_0-0.1        | TP06_0.4-0.5      |
|---------------------|-----|------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix       |     |      | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No. |     |      | L23-<br>Oc0063466 | L23-<br>Oc0063467 | L23-<br>Oc0063468 | L23-<br>Oc0063469 |
| Date Sampled        |     |      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference      | LOR | Unit |                   |                   |                   |                   |
| Sample Properties   |     |      |                   |                   |                   |                   |
| % Moisture          | 1   | %    | 8.5               | 6.4               | 3.7               | 4.9               |

| Client Sample ID                             |          | Τ     | TP06_2.4-2.5 | TP07_0.8-1.0 | TP07_2.9-3.0 | TP08_0-0.1   |
|--|----------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix                                |          |       | Soil         | Soil         | Soil         | Soil         |
| Cample Matrix                                |          |       | L23-         | L23-         | L23-         | L23-         |
| Eurofins Sample No.                          |          |       | Oc0063470    | Oc0063471    | Oc0063472    | Oc0063473    |
| Date Sampled                                 |          |       | Oct 25, 2023 | Oct 24, 2023 | Oct 24, 2023 | Oct 24, 2023 |
| Test/Reference                               | LOR      | Unit  |              |              |              |              |
| Total Recoverable Hydrocarbons - 1999 NEPM F | ractions |       |              |              |              |              |
| TRH C6-C9                                    | 20       | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C10-C14                                  | 20       | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C15-C28                                  | 50       | mg/kg | < 50         | < 50         | < 50         | < 50         |
| TRH C29-C36                                  | 50       | mg/kg | < 50         | < 50         | 53           | < 50         |
| TRH C10-C36 (Total)                          | 50       | mg/kg | < 50         | < 50         | 53           | < 50         |
| BTEX   |          |       |              |              |              |              |
| Benzene                                      | 0.1      | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Toluene                                      | 0.1      | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Ethylbenzene                                 | 0.1      | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| m&p-Xylenes                                  | 0.2      | mg/kg | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| o-Xylene                                     | 0.1      | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Xylenes - Total*                             | 0.3      | mg/kg | < 0.3        | < 0.3        | < 0.3        | < 0.3        |
| BTEX   |          |       |              |              |              |              |
| 4-Bromofluorobenzene (surr.)                 | 1        | %     | 84           | 89           | 86           | 90           |
| Total Recoverable Hydrocarbons - 2013 NEPM F | ractions |       |              |              |              |              |
| Naphthalene <sup>N02</sup>                   | 0.5      | mg/kg | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2)N01        | 50       | mg/kg | < 50         | < 50         | < 50         | < 50         |
| TRH C6-C10                                   | 20       | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C6-C10 less BTEX (F1)N04                 | 20       | mg/kg | < 20         | < 20         | < 20         | < 20         |
| Organochlorine Pesticides                    |          |       |              |              |              |              |
| Chlordanes - Total                           | 0.1      | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| 4.4'-DDD                                     | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDE                                     | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDT                                     | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| а-НСН  | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Aldrin                                       | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| b-HCH  | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| d-HCH  | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Dieldrin                                     | 0.05     | mg/kg | 0.47         | < 0.05       | 0.68         | < 0.05       |
| Endosulfan I                                 | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan II                                | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan sulphate                          | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin                                       | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin aldehyde                              | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin ketone                                | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| g-HCH (Lindane)                              | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor                                   | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor epoxide                           | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Hexachlorobenzene                            | 0.05     | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |



| Client Sample ID          |     |      | TP06 2.4-2.5      | TP07 0.8-1.0      | TP07 2.9-3.0      | TP08 0-0.1        |
|---------------------------|-----|------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix             |     |      | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.       |     |      | L23-<br>Oc0063470 | L23-<br>Oc0063471 | L23-<br>Oc0063472 | L23-<br>Oc0063473 |
| Date Sampled              |     |      | Oct 25, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference            | LOR | Unit |                   |                   |                   |                   |
| Organochlorine Pesticides |     |      |                   |                   |                   |                   |
|                           |     |      |                   |                   |                   |                   |

| Sample watrix                              |           |       | 3011              | 3011              | 3011              | 3011              |
|--|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Eurofins Sample No.                        |           |       | L23-<br>Oc0063470 | L23-<br>Oc0063471 | L23-<br>Oc0063472 | L23-<br>Oc0063473 |
| Date Sampled                               |           |       | Oct 25, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                             | LOR       | Unit  |                   |                   |                   |                   |
| Organochlorine Pesticides                  |           |       |                   |                   |                   |                   |
| Methoxychlor                               | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene                                  | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*               | 0.05      | mg/kg | 0.47              | < 0.05            | 0.68              | < 0.05            |
| DDT + DDE + DDD (Total)*                   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*              | 0.1       | mg/kg | 0.47              | < 0.1             | 0.68              | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*        | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                 | 1         | %     | 90                | 78                | 99                | 101               |
| Tetrachloro-m-xylene (surr.)               | 1         | %     | 93                | 83                | 90                | 88                |
| Total Recoverable Hydrocarbons - 2013 NEPM | Fractions |       |                   |                   |                   |                   |
| TRH >C10-C16                               | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                               | 100       | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C34-C40                               | 100       | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                      | 100       | mg/kg | < 100             | < 100             | < 100             | < 100             |
| Heavy Metals                               |           |       |                   |                   |                   |                   |
| Arsenic                                    | 2         | mg/kg | 2.6               | 2.3               | 2.8               | 3.7               |
| Cadmium                                    | 0.1       | mg/kg | 0.2               | < 0.1             | < 0.1             | < 0.1             |
| Chromium                                   | 1         | mg/kg | 6.6               | 8.7               | 5.1               | 9.5               |
| Copper                                     | 1         | mg/kg | 8.8               | 20                | 15                | 2.2               |
| Lead                                       | 1         | mg/kg | 34                | 12                | 14                | 3.1               |
| Mercury                                    | 0.02      | mg/kg | 0.09              | 0.05              | 0.06              | 0.03              |
| Nickel                                     | 1         | mg/kg | 1.5               | 2.0               | 1.3               | 1.1               |
| Zinc                                       | 5         | mg/kg | 130               | 49                | 47                | 8.3               |
| Sample Properties                          |           |       |                   |                   |                   |                   |
| % Moisture                                 | 1         | %     | 4.3               | 6.0               | 11                | 1.4               |

| Client Sample ID                                 |      |       | TP08_0.4-0.5      | TP09_0.8-1.0      | TP10_1.4-1.5      | TP11_1.8-2.0      |
|--|------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                    |      |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                              |      |       | L23-<br>Oc0063474 | L23-<br>Oc0063475 | L23-<br>Oc0063476 | L23-<br>Oc0063477 |
| Date Sampled                                     |      |       | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                   | LOR  | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM Fract | ions |       |                   |                   |                   |                   |
| TRH C6-C9  | 20   | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                      | 20   | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                      | 50   | mg/kg | < 50              | < 50              | 54                | 110               |
| TRH C29-C36                                      | 50   | mg/kg | < 50              | < 50              | 98                | 140               |
| TRH C10-C36 (Total)                              | 50   | mg/kg | < 50              | < 50              | 152               | 250               |
| BTEX   |      |       |                   |                   |                   |                   |
| Benzene  | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene  | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                     | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                      | 0.2  | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene   | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                 | 0.3  | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX   |      |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                     | 1    | %     | 88                | 88                | 76                | 83                |



| Oliant Canada ID                                |        |       |              |              |              |              |
|---|--------|-------|--------------|--------------|--------------|--------------|
| Client Sample ID                                |        |       | TP08_0.4-0.5 | TP09_0.8-1.0 | TP10_1.4-1.5 | TP11_1.8-2.0 |
| Sample Matrix                                   |        |       | Soil<br>L23- | Soil<br>L23- | Soil<br>L23- | Soil<br>L23- |
| Eurofins Sample No.                             |        |       | Oc0063474    | Oc0063475    | Oc0063476    | Oc0063477    |
| Date Sampled                                    |        |       | Oct 24, 2023 | Oct 24, 2023 | Oct 24, 2023 | Oct 24, 2023 |
| Test/Reference                                  | LOR    | Unit  |              |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac | ctions |       |              |              |              |              |
| Naphthalene <sup>N02</sup>                      | 0.5    | mg/kg | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2)N01           | 50     | mg/kg | < 50         | < 50         | < 50         | < 50         |
| TRH C6-C10                                      | 20     | mg/kg | < 20         | < 20         | < 20         | < 20         |
| TRH C6-C10 less BTEX (F1)N04                    | 20     | mg/kg | < 20         | < 20         | < 20         | < 20         |
| Organochlorine Pesticides                       |        |       |              |              |              |              |
| Chlordanes - Total                              | 0.1    | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| 4.4'-DDD  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDE  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDT  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| а-НСН   | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Aldrin  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| b-HCH   | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| d-HCH   | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Dieldrin  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan I                                    | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan II                                   | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan sulphate                             | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin  | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin aldehyde                                 | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin ketone                                   | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| g-HCH (Lindane)                                 | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor                                      | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor epoxide                              | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Hexachlorobenzene                               | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Methoxychlor                                    | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Toxaphene                                       | 0.5    | mg/kg | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| Aldrin and Dieldrin (Total)*                    | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| DDT + DDE + DDD (Total)*                        | 0.05   | mg/kg | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Vic EPA IWRG 621 OCP (Total)*                   | 0.1    | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Vic EPA IWRG 621 Other OCP (Total)*             | 0.1    | mg/kg | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Dibutylchlorendate (surr.)                      | 1      | %     | 88           | 66           | 68           | 90           |
| Tetrachloro-m-xylene (surr.)                    | 1      | %     | 80           | 75           | 81           | 78           |
| Total Recoverable Hydrocarbons - 2013 NEPM Fra  | ctions |       |              | 1            |              |              |
| TRH >C10-C16                                    | 50     | mg/kg | < 50         | < 50         | < 50         | < 50         |
| TRH >C16-C34                                    | 100    | mg/kg | < 100        | < 100        | 120          | 210          |
| TRH >C34-C40                                    | 100    | mg/kg | < 100        | < 100        | < 100        | < 100        |
| TRH >C10-C40 (total)*                           | 100    | mg/kg | < 100        | < 100        | 120          | 210          |
| Heavy Metals                                    |        |       |              |              |              |              |
| Arsenic   | 2      | mg/kg | 4.6          | 4.0          | 20           | 32           |
| Cadmium   | 0.1    | mg/kg | < 0.1        | < 0.1        | < 0.1        | 0.2          |
| Chromium  | 1      | mg/kg | 11           | 8.4          | 22           | 30           |
| Copper  | 1      | mg/kg | 2.7          | 2.3          | 15           | 17           |
| Lead  | 1      | mg/kg | 3.7          | 3.5          | 13           | 28           |
| Mercury   | 0.02   | mg/kg | 0.03         | 0.03         | 0.03         | 0.07         |
| Nickel  | 1      | mg/kg | < 1          | < 1          | 1.8          | 4.2          |
| Zinc  | 5      | mg/kg | 11           | 10           | 43           | 110          |
| Sample Properties                               |        |       |              |              |              | 1            |
| % Moisture                                      | 1      | %     | 1.7          | 3.2          | 3.5          | 11           |



| Client Sample ID                                  |           |       | TP11_0.4-0.5      | TP12_0.0-0.1      | TP12_1.4-1.5      | TP13_0.0-0.1      |
|---|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |           |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |           |       | L23-<br>Oc0063478 | L23-<br>Oc0063479 | L23-<br>Oc0063480 | L23-<br>Oc0063481 |
| Date Sampled                                      |           |       | Oct 25, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                    | LOR       | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        |           |       |                   |                   |                   |                   |
| TRH C6-C9   | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50        | mg/kg | < 50              | 190               | 220               | < 50              |
| TRH C29-C36                                       | 50        | mg/kg | < 50              | 260               | 330               | 92                |
| TRH C10-C36 (Total)                               | 50        | mg/kg | < 50              | 450               | 550               | 92                |
| BTEX  |           |       |                   |                   |                   |                   |
| Benzene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2       | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3       | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  |           |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1         | %     | 71                | 73                | 96                | 86                |
| Total Recoverable Hydrocarbons - 2013 NEPM        | Fractions | •     |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         | '         |       |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| a-HCH   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin  | 0.05      | mg/kg | 0.43              | < 0.05            | < 0.05            | 0.32              |
| Endosulfan I                                      | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                     | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                               | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                                     | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                   | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                                | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                                 | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                      | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene   | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                      | 0.05      | mg/kg | 0.43              | < 0.05            | < 0.05            | 0.32              |
| DDT + DDE + DDD (Total)*                          | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1       | mg/kg | 0.43              | < 0.1             | < 0.1             | 0.32              |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                        | 1         | %     | 97                | 113               | 86                | 82                |
| Totrophloro m vylono (qurr.)                      | 1         | 0/.   | 75                | 70                | 07                | 62                |

Tetrachloro-m-xylene (surr.)

75

79

87

63



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| Client Sample ID                                 |      |       | TP11_0.4-0.5      | TP12_0.0-0.1      | TP12_1.4-1.5      | TP13_0.0-0.1      |
|--|------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                    |      |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                              |      |       | L23-<br>Oc0063478 | L23-<br>Oc0063479 | L23-<br>Oc0063480 | L23-<br>Oc0063481 |
| Date Sampled                                     |      |       | Oct 25, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                   | LOR  | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 2013 NEPM Fract | ions |       |                   |                   |                   |                   |
| TRH >C10-C16                                     | 50   | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                     | 100  | mg/kg | < 100             | 380               | 480               | 120               |
| TRH >C34-C40                                     | 100  | mg/kg | < 100             | 160               | 190               | < 100             |
| TRH >C10-C40 (total)*                            | 100  | mg/kg | < 100             | 540               | 670               | 120               |
| Heavy Metals                                     |      |       |                   |                   |                   |                   |
| Arsenic  | 2    | mg/kg | 2.3               | 23                | 30                | 3.0               |
| Cadmium  | 0.1  | mg/kg | < 0.1             | 0.2               | 0.2               | 0.1               |
| Chromium   | 1    | mg/kg | 6.4               | 28                | 33                | 7.2               |
| Copper   | 1    | mg/kg | 9.8               | 26                | 48                | 9.3               |
| Lead   | 1    | mg/kg | 34                | 23                | 43                | 29                |
| Mercury  | 0.02 | mg/kg | 0.04              | 0.09              | 80.0              | 0.05              |
| Nickel   | 11   | mg/kg | 1.2               | 4.5               | 11                | 1.6               |
| Zinc   | 5    | mg/kg | 100               | 110               | 160               | 160               |
| Sample Properties                                |      |       |                   |                   |                   |                   |
| % Moisture                                       | 1    | %     | 4.0               | 51                | 43                | 5.2               |

| Client Sample ID                                  |           |       | TP13_0.4-0.5      | TP14_0.8-1.0      | TP15_1.4-1.5      | TP15_2.8-3.0      |
|---|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |           |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |           |       | L23-<br>Oc0063482 | L23-<br>Oc0063483 | L23-<br>Oc0063484 | L23-<br>Oc0063485 |
| Date Sampled                                      |           |       | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                    | LOR       | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        | Fractions |       |                   |                   |                   |                   |
| TRH C6-C9   | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50        | mg/kg | < 50              | < 50              | 53                | 66                |
| TRH C29-C36                                       | 50        | mg/kg | 63                | 62                | 85                | 83                |
| TRH C10-C36 (Total)                               | 50        | mg/kg | 63                | 62                | 138               | 149               |
| BTEX  |           |       |                   |                   |                   |                   |
| Benzene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2       | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3       | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  |           |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1         | %     | 86                | 93                | 84                | 81                |
| Total Recoverable Hydrocarbons - 2013 NEPM        | Fractions |       |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         |           |       |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |



| Client Sample ID                                |        |       | TP13_0.4-0.5      | TP14_0.8-1.0      | TP15_1.4-1.5      | TP15_2.8-3.0      |
|---|--------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                   |        |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                             |        |       | L23-<br>Oc0063482 | L23-<br>Oc0063483 | L23-<br>Oc0063484 | L23-<br>Oc0063485 |
| Date Sampled                                    |        |       | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      | Oct 24, 2023      |
| Test/Reference                                  | LOR    | Unit  |                   |                   |                   |                   |
| Organochlorine Pesticides                       |        |       |                   |                   |                   |                   |
| a-HCH   | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin  | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH   | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH   | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin  | 0.05   | mg/kg | 0.39              | < 0.05            | 0.32              | 0.48              |
| Endosulfan I                                    | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                   | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                             | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin  | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                 | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                                   | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                 | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor                                      | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                              | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                               | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                    | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene                                       | 0.5    | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                    | 0.05   | mg/kg | 0.39              | < 0.05            | 0.32              | 0.48              |
| DDT + DDE + DDD (Total)*                        | 0.05   | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                   | 0.1    | mg/kg | 0.39              | < 0.1             | 0.32              | 0.48              |
| Vic EPA IWRG 621 Other OCP (Total)*             | 0.1    | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                      | 1      | %     | 70                | 80                | 65                | 70                |
| Tetrachloro-m-xylene (surr.)                    | 1      | %     | 72                | 67                | 83                | 65                |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac | ctions |       |                   |                   |                   |                   |
| TRH >C10-C16                                    | 50     | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                    | 100    | mg/kg | < 100             | < 100             | 110               | 120               |
| TRH >C34-C40                                    | 100    | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                           | 100    | mg/kg | < 100             | < 100             | 110               | 120               |
| Heavy Metals                                    |        |       |                   |                   |                   |                   |
| Arsenic   | 2      | mg/kg | 3.8               | 2.4               | 3.2               | 3.2               |
| Cadmium   | 0.1    | mg/kg | 1.6               | 0.2               | 0.1               | < 0.1             |
| Chromium  | 1      | mg/kg | 8.6               | 6.4               | 7.1               | 7.6               |
| Copper  | 1      | mg/kg | 9.5               | 9.5               | 8.7               | 9.6               |
| Lead  | 1      | mg/kg | 27                | 38                | 77                | 18                |
| Mercury   | 0.02   | mg/kg | 0.09              | 0.09              | 0.06              | 0.04              |
| Nickel  | 1      | mg/kg | 1.7               | 1.3               | 1.2               | 1.3               |
| Zinc  | 5      | mg/kg | 150               | 230               | 210               | 88                |
| Sample Properties                               | 1      |       |                   |                   |                   |                   |
| % Moisture                                      | 1      | %     | 5.7               | 4.8               | 6.8               | 5.2               |



| Client Sample ID                                  |         |         | TD40 0 0 4   | TD47 0 4 0 5 | TD47 0 0 4 0 | TD40 4 4 4 5 |
|---|---------|---------|--------------|--------------|--------------|--------------|
|   |         |         | TP16_0-0.1   | TP17_0.4-0.5 | TP17_0.8-1.0 | TP18_1.4-1.5 |
| Sample Matrix                                     |         |         | Soil<br>L23- | Soil<br>L23- | Soil<br>L23- | Soil<br>L23- |
| Eurofins Sample No.                               |         |         | Oc0063486    | Oc0063487    | Oc0063488    | Oc0063489    |
| Date Sampled                                      |         |         | Oct 25, 2023 | Oct 25, 2023 | Oct 25, 2023 | Oct 25, 2023 |
| Test/Reference                                    | LOR     | Unit    |              |              |              |              |
| Total Recoverable Hydrocarbons - 1999 NEPM Fra    | actions |         |              |              |              |              |
| TRH C6-C9   | 20      | mg/kg   | < 20         | < 20         | < 20         | < 20         |
| TRH C10-C14                                       | 20      | mg/kg   | < 20         | < 20         | < 20         | < 20         |
| TRH C15-C28                                       | 50      | mg/kg   | < 50         | 72           | 58           | 80           |
| TRH C29-C36                                       | 50      | mg/kg   | 73           | 82           | 96           | 110          |
| TRH C10-C36 (Total)                               | 50      | mg/kg   | 73           | 154          | 154          | 190          |
| BTEX  |         |         |              |              |              |              |
| Benzene   | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Toluene   | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Ethylbenzene                                      | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| m&p-Xylenes                                       | 0.2     | mg/kg   | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| o-Xylene  | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Xylenes - Total*                                  | 0.3     | mg/kg   | < 0.3        | < 0.3        | < 0.3        | < 0.3        |
| BTEX  | , 5.5   | 133     | 0.0          | 0.0          |              | 0.0          |
| 4-Bromofluorobenzene (surr.)                      | 1       | %       | 88           | 93           | 87           | 92           |
| Total Recoverable Hydrocarbons - 2013 NEPM Fra    |         | 70      | - 00         | 33           | - 07         | 32           |
| Naphthalene <sup>N02</sup>                        | 0.5     | mg/kg   | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50      | mg/kg   | < 50         | < 50         | < 50         | < 50         |
| TRH C6-C10  | 20      | mg/kg   | < 20         | < 20         | < 20         | < 20         |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20      | mg/kg   | < 20         | < 20         | < 20         | < 20         |
| Organochlorine Pesticides                         |         | IIIg/kg | \ 20         | 1 20         | \ 20         | \ 20         |
| Chlordanes - Total                                | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| 4.4'-DDD  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDE  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| 4.4'-DDT  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| a-HCH   | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Aldrin  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| b-HCH   | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| d-HCH   | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Dieldrin  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan I                                      | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan II                                     | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endosulfan sulphate                               | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin aldehyde                                   | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Endrin ketone                                     | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| g-HCH (Lindane)                                   | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor  | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Heptachlor epoxide                                | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Hexachlorobenzene                                 | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Methoxychlor                                      | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Toxaphene   | 0.5     | mg/kg   | < 0.5        | < 0.5        | < 0.5        | < 0.5        |
| Aldrin and Dieldrin (Total)*                      | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| DDT + DDE + DDD (Total)*                          | 0.05    | mg/kg   | < 0.05       | < 0.05       | < 0.05       | < 0.05       |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1     | mg/kg   | < 0.1        | < 0.1        | < 0.1        | < 0.1        |
| Dibutylchlorendate (surr.)                        | 1       | %       | 72           | 92           | 87           | 90           |
|   | 1 1     | , ,,    | 1 -          | 1 UZ         | 1 01         | 1 50         |



| Client Sample ID                              |          |       | TP16_0-0.1        | TP17_0.4-0.5      | TP17_0.8-1.0      | TP18_1.4-1.5      |
|---|----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                 |          |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                           |          |       | L23-<br>Oc0063486 | L23-<br>Oc0063487 | L23-<br>Oc0063488 | L23-<br>Oc0063489 |
| Date Sampled                                  |          |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                | LOR      | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 2013 NEPM Fi | ractions |       |                   |                   |                   |                   |
| TRH >C10-C16                                  | 50       | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                  | 100      | mg/kg | 100               | 130               | 130               | 170               |
| TRH >C34-C40                                  | 100      | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                         | 100      | mg/kg | 100               | 130               | 130               | 170               |
| Heavy Metals                                  |          |       |                   |                   |                   |                   |
| Arsenic                                       | 2        | mg/kg | 6.2               | 3.6               | 2.9               | 4.3               |
| Cadmium                                       | 0.1      | mg/kg | 0.1               | 0.1               | 0.1               | < 0.1             |
| Chromium                                      | 1        | mg/kg | 8.3               | 7.8               | 6.0               | 6.3               |
| Copper  | 1        | mg/kg | 11                | 9.9               | 7.3               | 6.7               |
| Lead  | 1        | mg/kg | 26                | 19                | 20                | 26                |
| Mercury                                       | 0.02     | mg/kg | 0.06              | 0.05              | 0.05              | 0.06              |
| Nickel  | 1        | mg/kg | 1.5               | 1.9               | 2.4               | 1.3               |
| Zinc  | 5        | mg/kg | 120               | 130               | 98                | 160               |
| Sample Properties                             |          |       |                   |                   |                   |                   |
| % Moisture                                    | 1        | %     | 4.5               | 4.0               | 3.4               | 5.0               |

| Client Sample ID                                  |           |       | TP19_1.8-2.0      | TP19 2.4-2.5      | TP20_0-0.1        | TP21 0.4-0.5      |
|---|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |           |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |           |       | L23-<br>Oc0063490 | L23-<br>Oc0063491 | L23-<br>Oc0063492 | L23-<br>Oc0063493 |
| Date Sampled                                      |           |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                    | LOR       | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        | Fractions |       |                   |                   |                   |                   |
| TRH C6-C9   | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50        | mg/kg | 62                | < 50              | < 50              | < 50              |
| TRH C29-C36                                       | 50        | mg/kg | 95                | < 50              | < 50              | 62                |
| TRH C10-C36 (Total)                               | 50        | mg/kg | 157               | < 50              | < 50              | 62                |
| BTEX  |           |       |                   |                   |                   |                   |
| Benzene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2       | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3       | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  |           |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1         | %     | 91                | 87                | 88                | 74                |
| Total Recoverable Hydrocarbons - 2013 NEPM        | Fractions |       |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         |           |       |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1       | mg/kg | 0.4               | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |



| Client Sample ID                           |              |         | TP19_1.8-2.0      | TP19_2.4-2.5      | TP20_0-0.1        | TP21_0.4-0.5      |
|--|--------------|---------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                              |              |         | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                        |              |         | L23-<br>Oc0063490 | L23-<br>Oc0063491 | L23-<br>Oc0063492 | L23-<br>Oc0063493 |
| Date Sampled                               |              |         | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| •  |              |         | OCI 23, 2023      | OCI 23, 2023      | Oct 23, 2023      | OCI 23, 2023      |
| Test/Reference                             | LOR          | Unit    |                   |                   | -                 | +                 |
| Organochlorine Pesticides                  |              |         |                   |                   |                   |                   |
| a-HCH                                      | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin                                     | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH                                      | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH                                      | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin                                   | 0.05         | mg/kg   | 0.47              | 0.47              | < 0.05            | < 0.05            |
| Endosulfan I                               | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                              | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                        | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin                                     | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                            | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                              | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                            | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor                                 | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                         | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                          | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                               | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene                                  | 0.5          | mg/kg   | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*               | 0.05         | mg/kg   | 0.47              | 0.47              | < 0.05            | < 0.05            |
| DDT + DDE + DDD (Total)*                   | 0.05         | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*              | 0.1          | mg/kg   | 0.87              | 0.47              | < 0.1             | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*        | 0.1          | mg/kg   | 0.4               | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                 | 1            | %       | 98                | 80                | 97                | 81                |
| Tetrachloro-m-xylene (surr.)               | 1            | %       | 85                | 90                | 82                | 74                |
| Total Recoverable Hydrocarbons - 2013 NEPM | // Fractions |         |                   |                   |                   |                   |
| TRH >C10-C16                               | 50           | mg/kg   | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                               | 100          | mg/kg   | 130               | < 100             | < 100             | < 100             |
| TRH >C34-C40                               | 100          | mg/kg   | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                      | 100          | mg/kg   | 130               | < 100             | < 100             | < 100             |
| Heavy Metals                               | •            |         |                   |                   |                   |                   |
| Arsenic                                    | 2            | mg/kg   | 3.3               | 4.5               | 9.5               | 3.1               |
| Cadmium                                    | 0.1          | mg/kg   | < 0.1             | 0.1               | 0.2               | 0.2               |
| Chromium                                   | 1            | mg/kg   | 6.8               | 9.4               | 12                | 9.1               |
| Copper                                     | 1            | mg/kg   | 7.3               | 11                | 13                | 9.8               |
| Lead                                       | 1            | mg/kg   | 30                | 36                | 36                | 25                |
| Mercury                                    | 0.02         | mg/kg   | 0.06              | 0.09              | 0.07              | 0.07              |
| Nickel                                     | 1            | mg/kg   | 1.5               | 2.1               | 1.8               | 1.6               |
| Zinc                                       | 5            | mg/kg   | 170               | 240               | 480               | 540               |
| Sample Properties                          | , 5          | ı mg/ng | 170               | 240               | 700               | 3-0               |
| % Moisture                                 | 1            | %       | 4.7               | 8.7               | 4.6               | 4.7               |
| /U IVIOISIUI C                             | ı            | /0      | 4.1               | 0.7               | 4.0               | 4.7               |



| Client Sample ID                                  |       |         | TP22_0-0.1        | TP23_0.4-0.5      | TP23_2.4-2.5      | TP25_0-0.1        |
|---|-------|---------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |       |         | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |       |         | L23-<br>Oc0063495 | L23-<br>Oc0063496 | L23-<br>Oc0063497 | L23-<br>Oc0063498 |
| Date Sampled                                      |       |         | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                    | LOR   | Unit    |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        |       |         |                   |                   |                   |                   |
| TRH C6-C9   | 20    | mg/kg   | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20    | mg/kg   | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50    | mg/kg   | 72                | < 50              | < 50              | 79                |
| TRH C29-C36                                       | 50    | mg/kg   | 95                | 71                | 63                | 120               |
| TRH C10-C36 (Total)                               | 50    | mg/kg   | 167               | 71                | 63                | 199               |
| BTEX  | , 30  | 1       |                   |                   |                   |                   |
| Benzene   | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2   | mg/kg   | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3   | mg/kg   | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  | 1 0.0 | ı mg/ng | 10.0              | 0.0               | 10.0              | 1 0.0             |
| 4-Bromofluorobenzene (surr.)                      | 1     | %       | 83                | 90                | 86                | 93                |
| Total Recoverable Hydrocarbons - 2013 NEPM        |       | 70      | - 00              | 30                | - 00              | 33                |
| Naphthalene <sup>N02</sup>                        | 0.5   | mg/kg   | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50    | mg/kg   | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20    | mg/kg   | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20    | mg/kg   | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         | 20    | mg/kg   | 120               | 120               | 1 20              | \ 20              |
| Chlordanes - Total                                | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| a-HCH   | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH   | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH   | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin  | 0.05  | mg/kg   | 0.22              | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan I                                      | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                     | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                               | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                   | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                                     | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                   | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor  | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                                | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                                 | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                      | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene   | 0.5   | mg/kg   | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                      | 0.05  | mg/kg   | 0.22              | < 0.05            | < 0.05            | < 0.05            |
| DDT + DDE + DDD (Total)*                          | 0.05  | mg/kg   | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1   | mg/kg   | 0.22              | < 0.1             | < 0.1             | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1   | mg/kg   | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                        | 1     | %       | 72                | 110               | 85                | 84                |
| Tetrachloro-m-xylene (surr.)                      | 1     | %       | 70                | 118               | 79                | 84                |



| Client Sample ID                                 |      |       | TP22_0-0.1        | TP23_0.4-0.5      | TP23_2.4-2.5      | TP25_0-0.1        |
|--|------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                    |      |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                              |      |       | L23-<br>Oc0063495 | L23-<br>Oc0063496 | L23-<br>Oc0063497 | L23-<br>Oc0063498 |
| Date Sampled                                     |      |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                   | LOR  | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 2013 NEPM Fract |      |       |                   |                   |                   |                   |
| TRH >C10-C16                                     | 50   | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                     | 100  | mg/kg | 140               | < 100             | < 100             | 170               |
| TRH >C34-C40                                     | 100  | mg/kg | < 100             | < 100             | < 100             | 110               |
| TRH >C10-C40 (total)*                            | 100  | mg/kg | 140               | < 100             | < 100             | 280               |
| Heavy Metals                                     |      |       |                   |                   |                   |                   |
| Arsenic  | 2    | mg/kg | 3.5               | 2.7               | 3.8               | 4.1               |
| Cadmium  | 0.1  | mg/kg | 1.8               | 0.2               | < 0.1             | 0.2               |
| Chromium   | 1    | mg/kg | 12                | 6.4               | 7.4               | 6.7               |
| Copper   | 1    | mg/kg | 24                | 8.4               | 8.6               | 9.8               |
| Lead   | 1    | mg/kg | 80                | 32                | 29                | 65                |
| Mercury  | 0.02 | mg/kg | 0.07              | 0.05              | 0.05              | 0.05              |
| Nickel   | 1    | mg/kg | 5.2               | 1.3               | 2.0               | 1.6               |
| Zinc   | 5    | mg/kg | 630               | 270               | 75                | 120               |
| Sample Properties                                |      |       |                   |                   |                   |                   |
| % Moisture                                       | 1    | %     | 9.9               | 7.5               | 9.0               | 6.8               |

| Client Sample ID                                  |           |       | TP25_0.4-0.5      | TP26_0.8-1.0      | TP27_1.5-2.0      | TP27 2.4-2.5      |
|---|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |           |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |           |       | L23-<br>Oc0063499 | L23-<br>Oc0063500 | L23-<br>Oc0063502 | L23-<br>Oc0063503 |
| Date Sampled                                      |           |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                    | LOR       | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        | Fractions |       |                   |                   |                   |                   |
| TRH C6-C9   | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50        | mg/kg | 62                | < 50              | 98                | 94                |
| TRH C29-C36                                       | 50        | mg/kg | 100               | 76                | 140               | 130               |
| TRH C10-C36 (Total)                               | 50        | mg/kg | 162               | 76                | 238               | 224               |
| BTEX  |           |       |                   |                   |                   |                   |
| Benzene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2       | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3       | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  |           |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1         | %     | 88                | 93                | 76                | 84                |
| Total Recoverable Hydrocarbons - 2013 NEPM        | Fractions |       |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         |           |       |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |



| Client Sample ID                                |      |                | TP25_0.4-0.5      | TP26_0.8-1.0      | TP27_1.5-2.0      | TP27_2.4-2.5      |
|---|------|----------------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                   |      |                | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                             |      |                | L23-<br>Oc0063499 | L23-<br>Oc0063500 | L23-<br>Oc0063502 | L23-<br>Oc0063503 |
| Date Sampled                                    |      |                | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                  | LOR  | Unit           |                   |                   | ,                 | ,                 |
| Organochlorine Pesticides                       | LOIC | Offic          |                   |                   |                   |                   |
| a-HCH   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin  | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin  | 0.05 | mg/kg          | < 0.05            | 0.50              | < 0.05            | < 0.05            |
| Endosulfan I                                    | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
|   | 0.05 |                | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate Endrin                      | 0.05 | mg/kg<br>mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                 | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldenyde Endrin ketone                   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
|   | 0.05 |                | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)<br>Heptachlor                   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                              | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                               | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                    | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
|   | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene                                       |      | mg/kg          |                   |                   |                   |                   |
| Aldrin and Dieldrin (Total)*                    | 0.05 | mg/kg          | < 0.05            | 0.5               | < 0.05            | < 0.05            |
| DDT + DDE + DDD (Total)*                        | 0.05 | mg/kg          | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IMARC 621 OCP (Total)*                  | 0.1  | mg/kg          | < 0.1             | 0.5               | < 0.1             | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*             | 0.1  | mg/kg          | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                      | 1    | %              | 99                | 105               | 103               | 88                |
| Tetrachloro-m-xylene (surr.)                    | 1 1  | %              | 85                | 86                | 90                | 78                |
| Total Recoverable Hydrocarbons - 2013 NEPM Frac |      | T "            |                   |                   |                   |                   |
| TRH >C10-C16                                    | 50   | mg/kg          | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                    | 100  | mg/kg          | 140               | 110               | 200               | 190               |
| TRH >C34-C40                                    | 100  | mg/kg          | < 100             | < 100             | 100               | < 100             |
| TRH >C10-C40 (total)*                           | 100  | mg/kg          | 140               | 110               | 300               | 190               |
| Heavy Metals                                    | 1    |                |                   |                   |                   |                   |
| Arsenic   | 2    | mg/kg          | 3.6               | 4.9               | 280               | 52                |
| Cadmium   | 0.1  | mg/kg          | 0.1               | 0.3               | 0.1               | < 0.1             |
| Chromium  | 1    | mg/kg          | 8.1               | 5.6               | 490               | 50                |
| Copper  | 1    | mg/kg          | 10                | 11                | 140               | 35                |
| Lead  | 1 1  | mg/kg          | 29                | 28                | 11                | 8.4               |
| Mercury   | 0.02 | mg/kg          | 0.05              | 0.05              | 0.1               | 0.05              |
| Nickel  | 1    | mg/kg          | 1.6               | 2.2               | 2.7               | 2.3               |
| Zinc  | 5    | mg/kg          | 110               | 220               | 47                | 31                |
| Sample Properties                               |      |                | 1                 |                   |                   | 1                 |
| % Moisture                                      | 1    | %              | 6.5               | 7.7               | 21                | 18                |
| Chromium (VI)                                   | 1    | mg/kg          | _                 | _                 | < 1               | _                 |



| Client Sample ID                                  |         |       | TP28_0.0-0.1 | TD29 0405            | TD20 0 9 1 0         | TP29 1.4-1.5 |
|---|---------|-------|--------------|----------------------|----------------------|--------------|
| •   |         |       | Soil         | TP28_0.4-0.5<br>Soil | TP29_0.8-1.0<br>Soil | Soil         |
| Sample Matrix                                     |         |       | L23-         | L23-                 | L23-                 | L23-         |
| Eurofins Sample No.                               |         |       | Oc0063504    | Oc0063505            | Oc0063506            | Oc0063507    |
| Date Sampled                                      |         |       | Oct 25, 2023 | Oct 25, 2023         | Oct 25, 2023         | Oct 25, 2023 |
| Test/Reference                                    | LOR     | Unit  |              |                      |                      |              |
| Total Recoverable Hydrocarbons - 1999 NEPM Fra    | actions |       |              |                      |                      |              |
| TRH C6-C9   | 20      | mg/kg | < 20         | < 20                 | < 20                 | < 20         |
| TRH C10-C14                                       | 20      | mg/kg | < 20         | < 20                 | < 20                 | < 20         |
| TRH C15-C28                                       | 50      | mg/kg | < 50         | 110                  | 71                   | 62           |
| TRH C29-C36                                       | 50      | mg/kg | 76           | 160                  | 130                  | 110          |
| TRH C10-C36 (Total)                               | 50      | mg/kg | 76           | 270                  | 201                  | 172          |
| ВТЕХ  |         |       |              |                      |                      |              |
| Benzene   | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| Toluene   | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| Ethylbenzene                                      | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| m&p-Xylenes                                       | 0.2     | mg/kg | < 0.2        | < 0.2                | < 0.2                | < 0.2        |
| o-Xylene  | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| Xylenes - Total*                                  | 0.3     | mg/kg | < 0.3        | < 0.3                | < 0.3                | < 0.3        |
| BTEX  |         |       |              |                      |                      |              |
| 4-Bromofluorobenzene (surr.)                      | 1       | %     | 82           | 88                   | 76                   | 88           |
| Total Recoverable Hydrocarbons - 2013 NEPM Fra    | actions |       |              |                      |                      |              |
| Naphthalene <sup>N02</sup>                        | 0.5     | mg/kg | < 0.5        | < 0.5                | < 0.5                | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50      | mg/kg | < 50         | < 50                 | < 50                 | < 50         |
| TRH C6-C10  | 20      | mg/kg | < 20         | < 20                 | < 20                 | < 20         |
| TRH C6-C10 less BTEX (F1)N04                      | 20      | mg/kg | < 20         | < 20                 | < 20                 | < 20         |
| Organochlorine Pesticides                         |         |       |              |                      |                      |              |
| Chlordanes - Total                                | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| 4.4'-DDD  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| 4.4'-DDE  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| 4.4'-DDT  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| a-HCH   | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Aldrin  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| b-HCH   | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| d-HCH   | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Dieldrin  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endosulfan I                                      | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endosulfan II                                     | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endosulfan sulphate                               | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endrin  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endrin aldehyde                                   | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Endrin ketone                                     | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| g-HCH (Lindane)                                   | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Heptachlor  | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Heptachlor epoxide                                | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Hexachlorobenzene                                 | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Methoxychlor                                      | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Toxaphene   | 0.5     | mg/kg | < 0.5        | < 0.5                | < 0.5                | < 0.5        |
| Aldrin and Dieldrin (Total)*                      | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| DDT + DDE + DDD (Total)*                          | 0.05    | mg/kg | < 0.05       | < 0.05               | < 0.05               | < 0.05       |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1     | mg/kg | < 0.1        | < 0.1                | < 0.1                | < 0.1        |
| Dibutylchlorendate (surr.)                        | 1       | %     | 65           | 75                   | 100                  | 102          |
| Tetrachloro-m-xylene (surr.)                      | 1       | %     | 62           | 67                   | 82                   | 95           |



| Client Sample ID                                 |      |       | TP28_0.0-0.1      | TP28_0.4-0.5      | TP29_0.8-1.0      | TP29_1.4-1.5      |
|--|------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                    |      |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                              |      |       | L23-<br>Oc0063504 | L23-<br>Oc0063505 | L23-<br>Oc0063506 | L23-<br>Oc0063507 |
| Date Sampled                                     |      |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                   | LOR  | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 2013 NEPM Fract | ions |       |                   |                   |                   |                   |
| TRH >C10-C16                                     | 50   | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                     | 100  | mg/kg | 100               | 230               | 160               | 140               |
| TRH >C34-C40                                     | 100  | mg/kg | < 100             | 100               | 120               | < 100             |
| TRH >C10-C40 (total)*                            | 100  | mg/kg | 100               | 330               | 280               | 140               |
| Heavy Metals                                     |      |       |                   |                   |                   |                   |
| Arsenic  | 2    | mg/kg | 44                | 72                | 14                | 5.6               |
| Cadmium  | 0.1  | mg/kg | 0.1               | 0.1               | < 0.1             | < 0.1             |
| Chromium   | 1    | mg/kg | 49                | 64                | 23                | 8.5               |
| Copper   | 1    | mg/kg | 39                | 51                | 12                | 6.8               |
| Lead   | 1    | mg/kg | 12                | 19                | 12                | 13                |
| Mercury  | 0.02 | mg/kg | 0.05              | 0.10              | 0.04              | 0.04              |
| Nickel   | 1    | mg/kg | 4.2               | 3.8               | 2.3               | 1.5               |
| Zinc   | 5    | mg/kg | 45                | 71                | 48                | 47                |
| Sample Properties                                |      |       |                   |                   |                   |                   |
| % Moisture                                       | 1    | %     | 11                | 31                | 17                | 9.8               |

| Client Sample ID                                  |           |       | TP30_2.4-2.5      | QC01              | QC02              | QC03              |
|---|-----------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                     |           |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                               |           |       | L23-<br>Oc0063508 | L23-<br>Oc0063509 | L23-<br>Oc0063510 | L23-<br>Oc0063511 |
| Date Sampled                                      |           |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                    | LOR       | Unit  |                   |                   |                   |                   |
| Total Recoverable Hydrocarbons - 1999 NEPM        | Fractions |       |                   |                   |                   |                   |
| TRH C6-C9   | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C10-C14                                       | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C15-C28                                       | 50        | mg/kg | < 50              | 59                | 69                | < 50              |
| TRH C29-C36                                       | 50        | mg/kg | 71                | 91                | 110               | < 50              |
| TRH C10-C36 (Total)                               | 50        | mg/kg | 71                | 150               | 179               | < 50              |
| BTEX  |           |       |                   |                   |                   |                   |
| Benzene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Toluene   | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2       | mg/kg | < 0.2             | < 0.2             | < 0.2             | < 0.2             |
| o-Xylene  | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3       | mg/kg | < 0.3             | < 0.3             | < 0.3             | < 0.3             |
| BTEX  |           |       |                   |                   |                   |                   |
| 4-Bromofluorobenzene (surr.)                      | 1         | %     | 95                | 80                | 89                | 77                |
| Total Recoverable Hydrocarbons - 2013 NEPM        | Fractions |       |                   |                   |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5       | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50        | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH C6-C10  | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20        | mg/kg | < 20              | < 20              | < 20              | < 20              |
| Organochlorine Pesticides                         |           |       |                   |                   |                   |                   |
| Chlordanes - Total                                | 0.1       | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05      | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |



| Client Sample ID                                 |      |       | TP30_2.4-2.5      | QC01              | QC02              | QC03              |
|--|------|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix                                    |      |       | Soil              | Soil              | Soil              | Soil              |
| Eurofins Sample No.                              |      |       | L23-<br>Oc0063508 | L23-<br>Oc0063509 | L23-<br>Oc0063510 | L23-<br>Oc0063511 |
| Date Sampled                                     |      |       | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                   | LOR  | Unit  |                   |                   |                   |                   |
| Organochlorine Pesticides                        |      | J 01t |                   |                   |                   |                   |
| a-HCH  | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Aldrin   | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| b-HCH  | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| d-HCH  | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Dieldrin   | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan I                                     | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan II                                    | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endosulfan sulphate                              | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin   | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin aldehyde                                  | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Endrin ketone                                    | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                  | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor                                       | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Heptachlor epoxide                               | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Hexachlorobenzene                                | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Methoxychlor                                     | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Toxaphene  | 0.5  | mg/kg | < 0.5             | < 0.5             | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                     | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| DDT + DDE + DDD (Total)*                         | 0.05 | mg/kg | < 0.05            | < 0.05            | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                    | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*              | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                       | 1    | %     | 60                | 92                | 93                | 74                |
| Tetrachloro-m-xylene (surr.)                     | 1    | %     | 85                | 80                | 73                | 75                |
| Total Recoverable Hydrocarbons - 2013 NEPM Fract | ions |       |                   |                   |                   |                   |
| TRH >C10-C16                                     | 50   | mg/kg | < 50              | < 50              | < 50              | < 50              |
| TRH >C16-C34                                     | 100  | mg/kg | < 100             | 130               | 160               | < 100             |
| TRH >C34-C40                                     | 100  | mg/kg | < 100             | < 100             | < 100             | < 100             |
| TRH >C10-C40 (total)*                            | 100  | mg/kg | < 100             | 130               | 160               | < 100             |
| Heavy Metals                                     |      |       |                   |                   |                   |                   |
| Arsenic  | 2    | mg/kg | 4.4               | 2.4               | 3.2               | 5.7               |
| Cadmium  | 0.1  | mg/kg | < 0.1             | < 0.1             | < 0.1             | < 0.1             |
| Chromium   | 1    | mg/kg | 8.2               | 3.8               | 5.6               | 13                |
| Copper   | 1    | mg/kg | 2.8               | 4.4               | 5.1               | 3.9               |
| Lead   | 1    | mg/kg | 3.4               | 12                | 14                | 3.3               |
| Mercury  | 0.02 | mg/kg | 0.03              | 0.05              | 0.04              | 0.02              |
| Nickel   | 1    | mg/kg | < 1               | < 1               | < 1               | 1.7               |
| Zinc   | 5    | mg/kg | 14                | 100               | 120               | 11                |
| Sample Properties                                |      |       |                   |                   |                   |                   |
| % Moisture                                       | 1    | %     | 5.4               | 5.3               | 5.7               | 3.8               |



| Client Sample ID                                  |          |       | TP24 0.8-1.0      | TP24_1.4-1.5      |
|---|----------|-------|-------------------|-------------------|
| Sample Matrix                                     |          |       | Soil              | Soil              |
| ·   |          |       | L23-<br>Oc0063512 | L23-<br>Oc0063513 |
| Eurofins Sample No.  Date Sampled                 |          |       | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                                    | LOR      | Unit  | Oct 20, 2020      | 001 20, 2020      |
| Total Recoverable Hydrocarbons - 1999 NEPM F      |          | Ullit |                   |                   |
|   |          |       | - 20              | 1 20              |
| TRH C6-C9   | 20       | mg/kg | < 20              | < 20              |
| TRH C10-C14                                       | 20       | mg/kg | < 20              | < 20              |
| TRH C15-C28                                       | 50<br>50 | mg/kg | < 50              | < 50              |
| TRH C29-C36                                       |          | mg/kg | 63                | < 50              |
| TRH C10-C36 (Total)                               | 50       | mg/kg | 63                | < 50              |
| BTEX  |          |       |                   | 0.4               |
| Benzene   | 0.1      | mg/kg | < 0.1             | < 0.1             |
| Toluene   | 0.1      | mg/kg | < 0.1             | < 0.1             |
| Ethylbenzene                                      | 0.1      | mg/kg | < 0.1             | < 0.1             |
| m&p-Xylenes                                       | 0.2      | mg/kg | < 0.2             | < 0.2             |
| o-Xylene  | 0.1      | mg/kg | < 0.1             | < 0.1             |
| Xylenes - Total*                                  | 0.3      | mg/kg | < 0.3             | < 0.3             |
| BTEX  |          | 1     | 1                 |                   |
| 4-Bromofluorobenzene (surr.)                      | 1        | %     | 138               | 142               |
| Total Recoverable Hydrocarbons - 2013 NEPM F      | ractions | 1     |                   |                   |
| Naphthalene <sup>N02</sup>                        | 0.5      | mg/kg | < 0.5             | < 0.5             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50       | mg/kg | < 50              | < 50              |
| TRH C6-C10  | 20       | mg/kg | < 20              | < 20              |
| TRH C6-C10 less BTEX (F1)N04                      | 20       | mg/kg | < 20              | < 20              |
| Organochlorine Pesticides                         |          |       |                   |                   |
| Chlordanes - Total                                | 0.1      | mg/kg | < 0.1             | < 0.1             |
| 4.4'-DDD  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| 4.4'-DDE  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| 4.4'-DDT  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| a-HCH   | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Aldrin  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| b-HCH   | 0.05     | mg/kg | < 0.05            | < 0.05            |
| d-HCH   | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Dieldrin  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endosulfan I                                      | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endosulfan II                                     | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endosulfan sulphate                               | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endrin  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endrin aldehyde                                   | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Endrin ketone                                     | 0.05     | mg/kg | < 0.05            | < 0.05            |
| g-HCH (Lindane)                                   | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Heptachlor  | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Heptachlor epoxide                                | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Hexachlorobenzene                                 | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Methoxychlor                                      | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Toxaphene   | 0.5      | mg/kg | < 0.5             | < 0.5             |
| Aldrin and Dieldrin (Total)*                      | 0.05     | mg/kg | < 0.05            | < 0.05            |
| DDT + DDE + DDD (Total)*                          | 0.05     | mg/kg | < 0.05            | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                     | 0.1      | mg/kg | < 0.1             | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*               | 0.1      | mg/kg | < 0.1             | < 0.1             |
| Dibutylchlorendate (surr.)                        | 1        | %     | 86                | 63                |
| Tetrachloro-m-xylene (surr.)                      | 1        | %     | 86                | 80                |



| Client Sample ID                     |                  |       | TP24_0.8-1.0      | TP24_1.4-1.5      |
|--------------------------------------|------------------|-------|-------------------|-------------------|
| Sample Matrix                        |                  |       | Soil              | Soil              |
| Eurofins Sample No.                  |                  |       | L23-<br>Oc0063512 | L23-<br>Oc0063513 |
| Date Sampled                         |                  |       | Oct 25, 2023      | Oct 25, 2023      |
| Test/Reference                       | LOR              | Unit  |                   |                   |
| Total Recoverable Hydrocarbons - 201 | 3 NEPM Fractions |       |                   |                   |
| TRH >C10-C16                         | 50               | mg/kg | < 50              | < 50              |
| TRH >C16-C34                         | 100              | mg/kg | < 100             | < 100             |
| TRH >C34-C40                         | 100              | mg/kg | < 100             | < 100             |
| TRH >C10-C40 (total)*                | 100              | mg/kg | < 100             | < 100             |
| Heavy Metals                         |                  |       |                   |                   |
| Arsenic                              | 2                | mg/kg | 3.4               | < 2               |
| Cadmium                              | 0.1              | mg/kg | < 0.1             | < 0.1             |
| Chromium                             | 1                | mg/kg | 6.9               | 5.1               |
| Copper                               | 1                | mg/kg | 6.3               | 2.6               |
| Lead                                 | 1                | mg/kg | 9.1               | 12                |
| Mercury                              | 0.02             | mg/kg | 0.03              | 0.03              |
| Nickel                               | 1                | mg/kg | 1.4               | 1.3               |
| Zinc                                 | 5                | mg/kg | 47                | < 5               |
| Sample Properties                    |                  | ·     |                   |                   |
| % Moisture                           | 1                | %     | 7.1               | 7,1               |



## Sample History

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

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

| Description  | Testing Site | Extracted    | <b>Holding Time</b> |
|--|--------------|--------------|---------------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions                 | Welshpool    | Oct 30, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C6-C40                                    |              |              |                     |
| BTEX   | Welshpool    | Oct 30, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C6-C40                                    |              |              |                     |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                 | Welshpool    | Oct 30, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C8-C40                                    |              |              |                     |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                 | Welshpool    | Oct 30, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C6-C40                                    |              |              |                     |
| Organochlorine Pesticides  | Welshpool    | Oct 30, 2023 | 14 Days             |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                   |              |              |                     |
| Metals M8  | Welshpool    | Nov 14, 2023 | 28 Days             |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS |              |              |                     |
| Chromium (VI)  | Welshpool    | Nov 14, 2023 | 28 Days             |
| - Mothod: ARL051 - Hexavelent Chromium in Soil                       |              |              |                     |
| % Moisture   | Welshpool    | Oct 27, 2023 | 14 Days             |

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Christchurch 43 Delroit Drive

Auckland 35 O'Rorke Road NZBN: 9429046024954

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Canberra Brisbano Norwesser.
Unit 12 Dacre Street 1/21 Smalwood Piece 1/2 Frost Drive Middle West NSW 2304 ACT 2911
ACT 2912
ACT 2913

> Order No.: Report #: Phone:

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Company Name:

Address:

Site# 2370

email: EnviroSales@eurofins.com

web: www.eurofins.com,au

Dilhom House 2 Bulwer St

WA 6000

Perth

MSG2023-003

Project Name: Project ID:

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TP03 14-1.5 Oct 24, 2023 TP04\_0.0-0.1 Oct 24, 2023 TP04 1.4-1.5 Oct 24, 2023 TP05 1.8-2.0 Oct 24, 2023

TP02\_0.4-0.5 Oct 24, 2023

TP01 1.8-1.9 Oct 24, 2023

L23-Oc0063463 L23-Oc0063464

23-Oc0063462

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LAB ID

Matrix

Sampling Time

Sample Date

Perth Laboratory - NATA # 2377 Site # 2370

External Laboratory Sample ID

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L23-Oc0063468

Oct 24, 2023

TP05 0-0.1

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TP06 0.4-0.5 Oct 24, 2023 TP06 2.4-2.5 Oct 25, 2023

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L23-Oc0063470

L23-Oc0063471

L23-Oc0063469

L23-Oc0063472 L23-Oc0063473 L23-Oc0063474

TP07 2.9 3.0 Oct 24, 2023

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Oct 24, 2023

TP07 0.8-1.0

Oct 24, 2023

TP08 0-0.1

TP08 0.4-0.5 Oct 24, 2023

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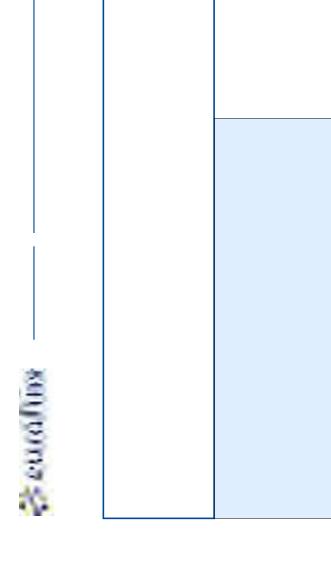
Oct 26, 2023 12:00 PM Nov 1, 2023 4 Day Received: Priority: Due:

Geri Pethebridge

Contact Name:

Eurofins Analytical Services Manager: Natalie Hill

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Eurofins ARL 46-48 Banksia Road, Welshpool, WA, Australia, 6106 Page 22 of 38

NZBN: 9429048024954

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NATA# 1261
NATA# 1261 

Murarrie M QLD 4172 To QLD 4172 To Tel: +61 7 3902 4600 Ni NATA# 1261 Site# 20794

Order No.: Report #: Phone:

Aurora Environmental (Perth) P/L

Company Name:

Address:

Dilhom House 2 Bulwer St

WA 6000

Perth

MSG2023-003

Project Name: Project ID:

Oct 26, 2023 12:00 PM Nov 1, 2023 Received: Due:

Geri Pethebridge

4 Day Contact Name: Priority:

Eurofins Analytical Services Manager: Natalie Hill

Perth Laboratory - NATA # 2377 Site # 2370 External Laboratory

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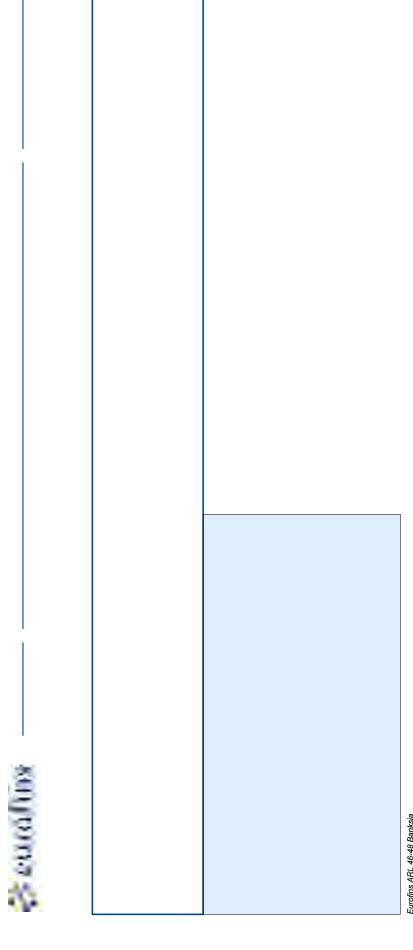
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| 14 TP09 0.8-1.0<br>16 TP11 1.8-2.0<br>17 TP11 0.4-0.5<br>18 TP12 0.0-0.1<br>19 TP12 1.4-1.5<br>20 TP13 0.0-0.1<br>21 TP13 0.4-0.5<br>22 TP14 0.8-1.0<br>23 TP15 1.4-1.5<br>24 TP15 2.8-3.0<br>25 TP16 0.0.1<br>26 TP17 0.4-0.5 | TP09 0.8-1.0 Oct 24, 2023 |      | - No. 00000-0 00 - |  |
|--|---------------------------|------|--------------------|--|
|  |                           | Sol  | L23-Uc0063475      |  |
|  | Oct 24, 2023              | Soil | L23-Oc0063476      |  |
|  | TP11_1 8-2.0 Oct 24, 2023 | Soil | L23-Oc0063477      |  |
|  | Oct 25, 2023              | Soil | L23-Oc0063478      |  |
|  | TP12_0.0-0.1 Oct 24, 2023 | Soil | L23-Oc0063479      |  |
|  | TP12_1.4-1.5 Oct 24, 2023 | Sol  | L23-Oc0063480      |  |
|  | Oct 24, 2023              | Soil | L23-Oc0063481      |  |
|  | TP13 0.4-0.5 Oct 24, 2023 | Soil | L23-Oc0063482      |  |
|  | TP14_0 8-1.0 Oct 24, 2023 | Soil | L23-Oc0063483      |  |
|  | TP15_1.4-1.5 Oct 24, 2023 | Soil | L23-Oc0063484      |  |
|  | TP15_2.8-3.0 Oct 24, 2023 | Soil | L23-Oc0063485      |  |
|  | Oct 25, 2023              | Soil | L23-Oc0063486      |  |
| _  | Oct 25, 2023              | Sol  | L23-Oc0063487      |  |
| 1  | Oct 25, 2023              | Soil | L23-Oc0063488      |  |
| 28 TP18_1,4-1,5  | TP18_1.4-1.5 Oct 25, 2023 | Soil | L23-Oc0063489      |  |



Eurofins ARL 46-48 Banksia Road, Welshpool, WA, Australia, 6106 Page 23 of 38



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Sle# 25079 & 25289

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email: EnviroSales@eurofins.com

Company Name:

Address:

web: www.eurofins.com,au

MSG2023-003

Project Name: Project ID:

WA 6000 Perth

Oct 26, 2023 12:00 PM Received: Due:

Geri Pethebridge Contact Name:

Nov 1, 2023 4 Day Priority:

Eurofins Analytical Services Manager: Natalle Hill

# Sample Detail

Date Reported:

| Per | th Laboratory -           | Perth Laboratory - NATA # 2377 Site # 2370 | 2370 |               | × | × | × | × | × | × |
|-----|---------------------------|--|------|---------------|---|---|---|---|---|---|
| Ext | External Laboratory       | ٨  |      |               |   |   |   |   |   |   |
| 29  | TP19_1,8-2,0 Oct 25, 2023 | Oct 25, 2023                               | Sol  | L23-Oc0063490 | - |   | × | × | × | × |
| 30  | TP19_2.4-2.5              | TP19_2.4-2.5 Oct 25, 2023                  | Soil | L23-Oc0063491 |   |   | × | × | × | × |
| 31  | TP20_0-0.1                | Oct 25, 2023                               | Soil | L23-Oc0063492 |   |   | × | × | × | × |
| 32  | TP21_0.4-0.5              | Oct 25, 2023                               | Soil | L23-Oc0063493 |   |   | × | × | × | × |
| 33  | TP21_0.8-1.0              | Oct 25, 2023                               | Soil | L23-Oc0063494 |   | × |   |   |   |   |
| 34  | TP22_0-0,1                | Oct 25, 2023                               | Sol  | L23-Oc0063495 |   |   | × | × | × | × |
| 35  | TP23 0.4-0.5              | Oct 25, 2023                               | Sol  | L23-Oc0063496 |   |   | × | × | × | × |
| 38  | TP23_2.4-2.5              | Oct 25, 2023                               | Sol  | L23-Oc0063497 |   |   | × | × | × | × |
| 37  | TP25_0-0,1                | Oct 25, 2023                               | Soil | L23-Oc0063498 | _ |   | × | × | × | × |
| 38  | TP25 0.4-0.5              | TP25_0.4-0.5 Oct 25, 2023                  | Sol  | L23-Oc0063499 |   |   | × | × | × | × |
| 39  | TP26_0.8-1.0              | TP26_0.8-1.0 Oct 25, 2023                  | Soil | L23-Oc0063500 |   |   | × | × | × | × |
| 40  | TP26_1.4-1.5              | Oct 25, 2023                               | Soil | L23-Oc0063501 |   | × |   |   |   |   |
| 41  | TP27 1.5-2.0              | Oct 25, 2023                               | Sol  | L23-Oc0063502 |   |   | × | × | × | × |
| 45  | TP27_2.4-2.5              | Oct 25, 2023                               | Soil | L23-Oc0063503 |   |   | × | × | × | × |
| 43  | TP28 0,0-0,1              | Oct 25, 2023                               | Sol  | L23-Oc0063504 |   |   | × | × | × | × |

Eurofins ARL 46-48 Banksia Road, Welshpool, WA, Australia, 6106 Page 24 of 38

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Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521

Eurofins ARL Pty Ltd

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Sydney Canberra Br 179 Mapovar Road Unit 12 Dacre Street 17 Giraween Mitchell Mit NSW 2145 ACT 2911 QU OD Tel. 415 12 9900 8400 Tel. 415 12 13 8091 Te NATA# 1261 NAT# 1261 NA Ste# 18217 Ste# 25466 Sit

1038509

Order No.: Report #: Phone:

Aurora Environmental (Perth) P/L

Company Name:

Address:

email: EnviroSales@eurofins.com

web: www.eurofins.com,au

Ollhorn House 2 Bulwer St

WA 6000 Perth

MSG2023-003

Project Name: Project ID:

Oct 26, 2023 12:00 PM Nov 1, 2023 Received: Priority: Due:

4 Day

Geri Pethebridge Contact Name: Eurofins Analytical Services Manager: Natalie Hill

# Sample Detail

Date Reported:

|  | - |   |   | _ |
|--|---|---|---|---|
| Perth Laboratory - NATA # 2377 Site # 2370 | × | × | × |   |
| External aboratory                         |   |   |   |   |

×

| Per | th Laboratory -     | Perth Laboratory - NATA # 2377 Site # 2370 | 2370 |               | × | ×  | × | × | ^ |
|-----|---------------------|--|------|---------------|---|----|---|---|---|
| Ext | External Laboratory | y  |      |               |   |    |   |   |   |
| 44  | TP28_0.4-0.5        | TP28 0.4-0.5 Oct 25, 2023                  | Sol  | L23-Oc0063505 |   |    | × | × | ^ |
| 45  | TP29_0.8-1.0        | TP29 0.8-1.0 Oct 25, 2023                  | Soil | L23-Oc0063506 |   |    | × | × | ^ |
| 46  | TP29_1.4-1.5        | IP29_1.4-1.5 Oct 25, 2023                  | Sol  | L23-Oc0063507 |   |    | × | × | ^ |
| 47  | TP30_2.4-2.5        | TP30 2.4-2.5 Oct 25, 2023                  | Sol  | L23-Oc0063508 |   |    | × | × | ^ |
| 48  | QC01                | Oct 25, 2023                               | Soil | L23-Oc0063509 |   |    | × | × | ^ |
| 49  | QC02                | Oct 25, 2023                               | Sol  | L23-Oc0063510 |   | =: | × | × | ^ |
| 20  | QC03                | Oct 25, 2023                               | Sol  | L23-Oc0063511 |   |    | × | × | ^ |
| 51  | TP24_0.8-1.0        | TP24 0.8-1.0 Oct 25, 2023                  | Sol  | L23-Oc0063512 |   |    | × | × | ^ |
|     |                     |  |      |               |   |    |   |   |   |

× ×

× ×

× ×

> × ×

× ×

×

×

90

20

90

20

2 2

**Test Counts** 

52

| =             |                           |  |   |  | -3  |   |   | =:  |   |   |
|---------------|---------------------------|--|---|--|---|---|---|---|---|---|
|               |                           |  |   |  |   |   |   |   | ×   | ×   |
| L23-Oc0063505 | L23-Oc0063506             | L23-Oc0063507  | L23-Oc0063508   | L23-Oc0063509  | L23-Oc0063510   | L23-Oc0063511   | L23-Oc0063512   | L23-Oc0063513   | L23-Oc0063822   | L23-0c0063823   |
| Sol           | Soil                      | Sol  | Sol   | Sol  | Sol   | Sol   | Sol   | Sol   | Bulding<br>Materials  | Bulding<br>Materials  |
| Oct 25, 2023  | Oct 25, 2023              | Oct 25, 2023   | Oct 25, 2023  | Oct 25, 2023   | Oct 25, 2023  | Oct 25, 2023  | Oct 25, 2023  | Oct 25, 2023  | Oct 25, 2023  | Oct 25, 2023  |
| TP28 0.4-0.5  | TP29_0.8-1.0              | TP29_1.4-1.5   | TP30_2.4-2.5  | QC01   | QC02  | QC03  | TP24 0.8-1.0  | TP24_14-1.5   | TP10_1.4-1.5  | TP25_0.4-0.5 Oct 25, 2023   |
|               | TP28 0.4-0.5 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023<br>TP29 0.8-1.0 Oct 25, 2023 | TP28 0.4-0,5 Oct 25, 2023<br>TP29 0.8-1.0 Oct 25, 2023<br>TP29_1.4-1.5 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023<br>TP29 0.8-1.0 Oct 25, 2023<br>TP29 1.4-1.5 Oct 25, 2023<br>TP30 2.4-2.5 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 TP30 2.4-2.5 Oct 25, 2023 OC01 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 TP30 2.4-2.5 Oct 25, 2023 QC01 Oct 25, 2023 QC02 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 OC01 Oct 25, 2023 OC02 Oct 25, 2023 OC03 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 TP30 2.4-2.5 Oct 25, 2023 QC01 Oct 25, 2023 QC02 Oct 25, 2023 QC03 Oct 25, 2023 TP24 0.8-1.0 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 OC01 Oct 25, 2023 QC02 Oct 25, 2023 QC03 Oct 25, 2023 TP24 0.8-1.0 Oct 25, 2023 TP24 0.8-1.0 Oct 25, 2023 | TP28 0.4-0.5 Oct 25, 2023 TP29 0.8-1.0 Oct 25, 2023 TP29 1.4-1.5 Oct 25, 2023 OC01 Oct 25, 2023 QC02 Oct 25, 2023 QC03 Oct 25, 2023 TP24 0.8-1.0 Oct 25, 2023 TP24 0.8-1.0 Oct 25, 2023 TP24 1.4-1.5 Oct 25, 2023 |

Eurofins ARL 46-48 Banksia Road, Welshpool, WA, Australia, 6106 Page 25 of 38



## Internal Quality Control Review and Glossary

#### General

| General  | As for Malland Disaster Day  | Stratus Matrix Callege as  | ar an ann                               |                     | lan fallow and dell  |                               | a markanar       | Endows of Desta     | eter (Acces  | constat of Cita      |
|--|--|--|---|---------------------|--|-------------------------------|------------------|---------------------|--------------|----------------------|
|  | ts for Method Blanks, Dup<br>asure 1999, as amended N  |  |   |                     |  |                               |                  |                     | ction (Asses | ssment of Site       |
|  | lid results are reported on  |  |   |                     | apparcable, Addit  | oral GC data i                | nay co avallabl  | o on request.       |              |                      |
| AND  | s are reported on a wet we   | B85 2 10 1 10 10 10 10 10 10 10 10 10 10 10 1  | W. 100                                  | 1180                | 20   |                               |                  |                     |              |                      |
|  |  | All the state of t |   |                     | 100 350  |                               |                  |                     |              | î                    |
|  | ere the sample's origin is t   | the second control of the second   |   |                     |  |                               | ,                |                     |              | Î                    |
|  | atrix dependent, Quoted Lo   | And the state of t |   |                     | que to intertere   | nces.                         |                  |                     |              |                      |
|  | cted for matrix spikes or s  |  |   |                     |  |                               |                  |                     |              |                      |
|  | waters is performed on hor   | State Account April 10 to Application for the  | ples unless                             | noted otherwise     | •  | 1                             |                  |                     |              |                      |
| 않  | ysed on an 'as received' ba  |  |   |                     | e de la composition della comp |                               | Ŭ.               |                     |              |                      |
| [항도] 회원 시간 시간 교육 [항기 ] [인기   | ed in this report with blue or   |  | led by custo                            | mers that may       | ave an impact of   | in the results.               |                  |                     |              |                      |
| 10. This report replaces   | s any interim results previo   | usly issued.   |   |                     |  |                               |                  |                     |              |                      |
| Holding Times  | the state of the s | Dan samuana samuan sa  |   | Out-                |  |                               |                  |                     |              |                      |
| Please refer to the 'San   | ple Preservation and Cont  | tainer Guide' for holding ti   | mes (QS300                              | 1).                 |  |                               |                  |                     |              |                      |
| For samples received o   | n the last day of holding tin  | ne, notification of testing r  | equirements                             | should have be      | en received at l   | east 6 hours be               | fore sample re   | elpt deadlines as s | tated on th  | e SRA.               |
| If the Laboratory did not  | receive the information in   | the required timeframe, a  | nd despite a                            | ny other integri    | y issues, suitabl  | y qualified resu              | ts may still be  | reported,           |              |                      |
| Holding times apply from   | n the date of sampling; the  | refore, compliance with the  | ese may be                              | outside the lab     | pratory's control.   |                               |                  |                     |              |                      |
| For VOCs containing vir  | nyl chloride, styrene and 2-   | chloroethyl vinyl ether, th  | s hallding tin                          | e is 7 days; ho     | wever, for all oth   | er VOCs, such                 | as BTEX or CE    | -10 TRH, the holdi  | ng time is 1 | 4 days,              |
|  |  | Change of Market Systematics   | 25 A SEC 384 E26                        | e-construction of   | 03-03-03-03-03-03-03-03-03-03-03-03-03-0   | D 1. sets 400.00 2417 cm      |                  |                     | A CONTRACTOR | A TOWNS OF THE PARTY |
| Units  |  | 8  | 0                                       |                     | 0  |                               |                  |                     | . 5          | - 5                  |
| mg/kg: milligrams per k  | dogram   | mg/L: milligrams   | per litre                               |                     |  | μg/L: mid                     | rograms per M    | e                   |              |                      |
| ppm: parts per million   |  | ppb: parts per b   | llion                                   | 1                   |  | %: Perce                      | ntage            |                     |              |                      |
| org/100 mL: Organism:  | s per 100 millilitres  | NTU: Nephelom  | etric Turbidit                          | y Units             |  | MPN/100                       | mL: Most Prot    | able Number of or   | ganisms pe   | r 100 millitres      |
| CFU: Colony forming ur   | nit .  |  |   |                     |  |                               |                  |                     |              |                      |
| forme  |  |  |   |                     |  |                               |                  |                     |              |                      |
| Terms  |  |  |   |                     |  | 1                             |                  |                     |              |                      |
| APHA   | American Public Hea  |  |   |                     |  |                               |                  |                     |              |                      |
| CEC  | Cation Exchange Ca   | pacity   |   |                     |  |                               | ii î             |                     |              | []                   |
| coc  | Chain of Custody   | A STANLING OF THE STANLING OF  |   | COSCIENCE OF SOM    |  |                               |                  |                     |              |                      |
| CP   |  | as performed on samples  | S0000000000000000000000000000000000000  | 1.000 (CONT.) 1.000 |  |                               |                  |                     |              |                      |
| CRM  |  | Naterial (ISO17034) - repo   |   |                     |  |                               |                  |                     |              | Į.                   |
| Dry  |  | been determined on a sol   | 111111111111111111111111111111111111111 |                     |  | 10731 200                     | L v              |                     |              |                      |
| Duplicate  | 17 (1 mm) 25 27 mm (1 mm)  | alysis from the same sam   | ple and rep                             | orted in the san    | e units as the re  | sult to show co               | mparison.        |                     |              |                      |
| LOR  | Limit of Reporting.  | Konsum seriasi as acce   | 1 - co - co - c                         |                     | 0  |                               | 7                |                     | - 2          | 1                    |
| LCS  | Laboratory Control S   | ample - reported as perce  | nt recevery.                            | to construction of  |  |                               |                  |                     |              | CONTRACTOR I         |
| Method Blank   | In the case of solid s   | amples, these are perforn  | ed on labor                             | atory-certified o   | ean sands and I  | n the case of w               | ater samples, t  | hese are performe   | on de loni   | sed water,           |
| NCP  | Non-Client Parent - 0  | C performed on samples   | not pertaini                            | ng to this report   | QC represents  | the sequence of               | r batch that cli | ant samples were s  | nalysed wit  | hin.                 |
| RPD  | Relative Percent Diff  | erence between two Dupl  | icate pieces                            | of analysis.        |  |                               |                  |                     |              |                      |
| SPIKE  | Addition of the analys   | te to the sample and repor   | rted as perce                           | entage recovery     |  | N-                            | :0 ::            |                     | 1            |                      |
| SRA  | Sample Receipt Advi  | ice  |   |                     |  |                               |                  |                     |              |                      |
| Surr - Surrogate   | The addition of a like   | geompound to the analyte   | target and r                            | eported as perc     | entage recovery  |                               | -                |                     |              |                      |
| IBTO   | Tributyltin oxide (b/a-  | tributyltin oxide) – individu  | el tributyttin                          | compounds car       | not be identified  | separately in t               | ne environment   | however free trip   | A) to was    | measured,            |
|  |  | converted stoichiometrical   | lly into tribut                         | yltin oxide for co  | omparison with re  | egulatory limits.             |                  |                     |              | MA P. S. S. S. S.    |
| TCLP   | Toxicity Characteristi   | ic Leaching Procedure  |   |                     |  |                               |                  |                     |              |                      |
| TEQ  | Toxic Equivalency Q  | diotient or Total Equivalen  | ce                                      |                     |  |                               |                  |                     |              | j                    |
| QSM  | US Department of De  | dense Quality Systems M  | lanual Versi                            | n 5.4               |  |                               | 2                |                     |              | 7                    |
| US EPA   | United States Enviro   | nmental Protection Agenc   | -y                                      |                     | Г.   | 1                             | DE               |                     |              |                      |
| WA DWER  | Sum of PFBA, PFPe.   | A, PEHxA, PEHpA, PEOA  | PFBS, PFI                               | 4xS, PFOS, 6:2      | FTSA, 8:2 FTSA   | 4                             |                  |                     |              |                      |
| and the second   | eres and eres thorstoned 51 500  | 3  | 2                                       |                     | 23   |                               |                  |                     |              | ]                    |
| QC - Acceptance  | Criteria   |  |   |                     |  |                               |                  |                     |              |                      |
|  | should be used as a guide  | only and may be differen   | t when site-                            | specific Sample     | ng Analysis and  | Quality Plan (S               | AQP) have bee    | n implemented.      |              |                      |
| RPD Duplicates: Global   | RPD Duplicates Acceptan  | ce Criteria is 30%; howe   | er the follow                           | ing acceptance      | quidelines are e   | qually                        |                  |                     | - 4          | ļ.                   |
|  | times the LOR. No Limit  |  | Jan vocamient                           |                     |  | (27512)                       | -                |                     |              |                      |
|  | times the LOR: RPD must  | To bolumon 0-50%   |   |                     |  |                               | J                |                     |              |                      |
|  | OR: RPD must lie between   |  |   |                     |  |                               |                  |                     |              |                      |
|  | re reported as a range, not  | XXX (V. Nebuc  |   |                     | t e  |                               | 4                |                     |              | *                    |
|  | re reported as a range, not<br>Recoveries must lie betwee  |  | Dhag-I- *                               | 0_4606/ 4 DE        | AC 01/00   | numerion 20 40                | nec              |                     | 1            |                      |
| Committee of the females between the committee of the com |  | and the second s | And desired the second                  |                     | The second second  |                               |                  | Walter Walter       | 400000       | ra Karawasa          |
| PFAS tieto samples that<br>affected.   | t contain surrogate recover  | ies above the QG imit de   | signated in s                           | JOIN 5.4, WHERE     | no positive PEA  | a results have                | been reported,   | have been review    | od, and no   | data was             |
|  |  |  |   |                     |  |                               |                  |                     | Ĭ            |                      |
| QC Data General  | Comments   |  |   |                     |  |                               |                  | eronner -           | 1            |                      |
| (C) (VC)(C) (C)  | ported as less than (<), hig   | her than the numinated t   | OR, this is t                           | pe to either ma     | trix interference,   | extract dilution              | required due to  | rinterferences or o | ontaminant   | levels within        |
| the sample, high me  | oisture content or insufficie  | nt sample provided   | 4                                       |                     | 4.   | - Value of Pall Value of Pall |                  |                     |              |                      |
| <ol><li>Duplicate data show</li></ol>  | wn within this report that st  | ates the word "BATCH" is   | a Batch Du                              | dicate from out     | side of your sam   | ple batch but w               | ithin the labora | ory sample batch a  | d a 1:10 rai | io. The Parent       |
| and Duplicate data   | shown are not data from y  | our samples.   |   |                     | I work work in the same of the |                               |                  |                     |              |                      |
| <ol><li>pH and Free Chloris</li></ol>  | ne analysed in the laborate  | ry - Analysis on this test   | nust begin v                            | eithin 30 minute    | s of sampling. To  | rerefore, labora              | tory analysis is | unlikely to be com  | pleted with  | n holding            |
| time, Analysis will be   | egin as soon as possible a   | ter sample receipt.  | 707                                     | L                   | 0 3  | 191                           | H10 86           | W.                  |              | 96                   |

- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample,
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Report Number: 1038509-S-V2



## **Quality Control Results**

| Test   | Units    | Result 1   | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|--|----------|------------|----------------------|----------------|--------------------|
| Method Blank   | ·.       |            | 37 110 373           |                |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | -        |            |                      |                |                    |
| TRH C6-C9  | mg/kg    | < 20       | 20                   | Pass           |                    |
| TRH C10-C14  | mg/kg    | < 20       | 20                   | Pass           |                    |
| TRH C15-C28  | mg/kg    | < 50       | 50                   | Pass           |                    |
| TRH C29-C36  | mg/kg    | < 50       | 50                   | Pass           |                    |
| Method Blank   |          | Vi W       |                      |                |                    |
| BTEX   |          |            |                      |                |                    |
| Benzene  | mg/kg    | < 0.1      | 0.1                  | Pass           |                    |
| Toluene  | mg/kg    | < 0.1      | 0.1                  | Pass           |                    |
| Ethylbenzene   | mg/kg    | < 0.1      | 0.1                  | Pass           |                    |
| m&p-Xylenes  | mg/kg    | < 0.2      | 0.2                  | Pass           |                    |
| o-Xylene   | mg/kg    | < 0.1      | 0,1                  | Pass           |                    |
| Xylenes - Total*                                     | mg/kg    | < 0.3      | 0.3                  | Pass           |                    |
| Method Blank   |          | L. COLONIA |                      |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions |          | 0. 19.     |                      |                |                    |
| Naphthalene  | mg/kg    | < 0.5      | 0.5                  | Pass           |                    |
| TRH C6-C10   | mg/kg    | < 20       | 20                   | Pass           |                    |
| Method Blank   | 1 113113 |            |                      | 1 000          |                    |
| Organochlorine Pesticides                            |          |            | 7                    | F              |                    |
| Chlordanes - Total                                   | mg/kg    | < 0.1      | 0.1                  | Pass           |                    |
| 4.4'-DDD   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| 4,4'-DDE   | mg/kg    | < 0.05     | 0,05                 | Pass           |                    |
| 4.4'-DDT   | mg/kg    | < 0.05     | 0,05                 | Pass           |                    |
| a-HCH  | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Aldrin   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| b-HCH  |          | < 0.05     | 0,05                 | Pass           |                    |
| d-HCH  | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Dieldrin   | mg/kg    |            | 0.05                 | Pass           |                    |
|  | mg/kg    | < 0.05     |                      | -              |                    |
| Endosulfan II  | mg/kg    | < 0.05     | 0.05                 | Pass<br>Pass   |                    |
|  | mg/kg    | < 0.05     | 1 3955               | 1996 9 6 6 7   |                    |
| Endosulfan sulphate                                  | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Endrin   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Endrin aldehyde                                      | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Endrin ketone  | mg/kg    | < 0.05     | 0,05                 | Pass           |                    |
| g-HCH (Lindane)                                      | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Heptachlor   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Heptachlor epoxide                                   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Hexachlorobenzene                                    | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Methoxychlor   | mg/kg    | < 0.05     | 0.05                 | Pass           |                    |
| Aldrin and Dieldrin (Total)*                         | mg/kg    | 24         | 0.05                 | N/A            |                    |
| Method Blank   |          |            |                      |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | 7        |            |                      |                |                    |
| TRH >C10-C16   | mg/kg    | < 50       | 50                   | Pass           |                    |
| TRH >C16-C34   | mg/kg    | < 100      | 100                  | Pass           |                    |
| TRH >C34-C40   | mg/kg    | < 100      | 100                  | Pass           |                    |
| Method Blank   |          | FI (F)     |                      |                |                    |
| Heavy Metals   | Ÿ.       |            |                      |                |                    |
| Arsenic  | mg/kg    | < 2        | 2                    | Pass           |                    |
| Cadmium  | mg/kg    | < 0.1      | 0,1                  | Pass           |                    |
| Chromium   | mg/kg    | <1         | 1                    | Pass           |                    |
| Copper   | mg/kg    | <1         | 1                    | Pass           |                    |



| Test   | Units     | Result 1    | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|--|-----------|-------------|----------------------|----------------|--------------------|
| Lead   | mg/kg     | <1          | 111                  | Pass           |                    |
| Mercury  | mg/kg     | < 0.02      | 0.02                 | Pass           |                    |
| Nickel   | mg/kg     | <1          | 1                    | Pass           |                    |
| Zinc   | mg/kg     | < 5         | 5                    | Pass           |                    |
| Method Blank   |           |             |                      |                |                    |
| Chromium (VI)  | mg/kg     | <1          | 1                    | Pass           |                    |
| LCS - % Recovery   | W 40 C476 |             | 70 17                |                |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions   | -115      |             |                      |                |                    |
| TRH C6-C9  | %         | 103         | 70-130               | Pass           |                    |
| TRH C10-C14  | %         | 107         | 70-130               | Pass           |                    |
| LCS - % Recovery   | # 3-55    | M 2000 M    | 1 1 220000           |                |                    |
| BTEX   |           |             |                      |                |                    |
| Benzene  | %         | 88          | 70-130               | Pass           |                    |
| Toluene  | %         | 97          | 70-130               | Pass           |                    |
| Ethylbenzene   | %         | 102         | 70-130               | Pass           |                    |
| m&p-Xylenes  | %         | 101         | 70-130               | Pass           |                    |
| o-Xylene   | %         | 111         | 70-130               | Pass           |                    |
| Xylenes - Total*   | %         | 104         | 70-130               | Pass           |                    |
| LCS - % Recovery   | 70        | 104         | 1 70-130             | , 000          |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions   |           |             | 8 4                  |                |                    |
| Naphthalene  | %         | 99          | 70-130               | Pass           |                    |
| TRH C6-C10   | %         | 113         | 70-130               | Pass           |                    |
| TO SERVICE OF THE SER | 70        | 113         | 70-130               | Pass           |                    |
| LCS - % Recovery   |           | D 1         | T 1                  | Г              |                    |
| Organochlorine Pesticides  | T         |             |                      | 104489-0400    |                    |
| Chlordanes - Total   | %         | 99          | 70-130               | Pass           |                    |
| 4.4'-DDD   | %         | 107         | 70-130               | Pass           |                    |
| 4.4'-DDE   | %         | 111         | 70-130               | Pass           |                    |
| 4.4'-DDT   | %         | 105         | 70-130               | Pass           |                    |
| a-HCH  | %         | 93          | 70-130               | Pass           |                    |
| Aldrin   | %         | 93          | 70-130               | Pass           |                    |
| b-HCH  | %         | 95          | 70-130               | Pass           |                    |
| d-HCH  | %         | 84          | 70-130               | Pass           |                    |
| Dieldrin   | %         | 110         | 70-130               | Pass           |                    |
| Endosulfan I   | %         | 97          | 70-130               | Pass           |                    |
| Endosulfan II  | %         | 109         | 70-130               | Pass           |                    |
| Endosulfan sulphate  | %         | 102         | 70-130               | Pass           |                    |
| Endrin   | %         | 88          | 70-130               | Pass           |                    |
| Endrin aldehyde  | %         | 93          | 70-130               | Pass           |                    |
| Endrin ketone  | %         | 106         | 70-130               | Pass           |                    |
| g-HCH (Lindane)  | %         | 91          | 70-130               | Pass           |                    |
| Heptachlor   | %         | 85          | 70-130               | Pass           |                    |
| Heptachlor epoxide   | %         | 82          | 70-130               | Pass           |                    |
| Hexachlorobenzene  | %         | 95          | 70-130               | Pass           |                    |
| Methoxychlor   | %         | 91          | 70-130               | Pass           |                    |
| LCS - % Recovery   | ://c      |             |                      |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions   |           |             |                      |                |                    |
| TRH >C10-C16   | %         | 103         | 70-130               | Pass           |                    |
| LCS - % Recovery   | W         | W W         |                      |                |                    |
| Heavy Metals   |           |             |                      |                |                    |
| Arsenic  | %         | 111         | 80-120               | Pass           |                    |
| Cadmium  | %         | 98          | 80-120               |                |                    |
|  | %         | 105         |                      | Pass           |                    |
| Chromium   | 4         | 20 000000 P | 80-120               | Pass           |                    |
| Copper   | %         | 102         | 80-120               | Pass           |                    |
| Lead   | %         | 108         | 80-120               | Pass           |                    |



| Test   | Units | Result 1       | Acceptance<br>Limits                      | Pass<br>Limits | Qualifying<br>Code |
|--|-------|----------------|---|----------------|--------------------|
| Mercury  | %     | 100            | 80-120                                    | Pass           |                    |
| Nickel   | %     | 102            | 80-120                                    | Pass           |                    |
| Zinc   | %     | 116            | 80-120                                    | Pass           |                    |
| CRM - % Recovery                                     | 976   |                | 50 to 0.000000000000000000000000000000000 |                |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions |       |                |   |                |                    |
| TRH C6-C9  | %     | 87             | 70-130                                    | Pass           |                    |
| CRM - % Recovery                                     | -10   |                |   | ĺ              |                    |
| BTEX   | 41    | N I            |   |                |                    |
| Benzene  | %     | 93             | 70-130                                    | Pass           |                    |
| Toluene  | %     | 98             | 70-130                                    | Pass           |                    |
| Ethylbenzene   | %     | 103            | 70-130                                    | Pass           |                    |
| m&p-Xylenes  | %     | 104            | 70-130                                    | Pass           |                    |
| o-Xylene   | %     | 107            | 70-130                                    | Pass           |                    |
| Xylenes - Total*                                     | %     | 105            | 70-130                                    | Pass           |                    |
| CRM - % Recovery                                     | 1     | Lii chitato di | Lo ol obostos                             | 1              |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions |       |                |   |                |                    |
| Naphthalene  | %     | 111            | 70-130                                    | Pass           |                    |
| TRH C6-C10   | %     | 98             | 70-130                                    | Pass           |                    |
| CRM - % Recovery                                     |       |                | 1   | , 200          |                    |
| Organochlorine Pesticides                            |       |                |   | 1              |                    |
| Chlordanes - Total                                   | %     | 85             | 75-125                                    | Pass           |                    |
| 4.4'-DDD   | %     | 101            | 70-130                                    | Pass           |                    |
| 4.4'-DDE   | %     | 98             | 70-130                                    | Pass           |                    |
| 4,4'-DDT   | %     | 96             | 70-130                                    | Pass           |                    |
| a-HCH  | %     | 83             | 75-125                                    | Pass           |                    |
| Aldrin   | %     | 88             | 75-125                                    | Pass           |                    |
| b-HCH  | %     | 82             | 75-125                                    | Pass           |                    |
| d-HCH  | %     | 82             | 75-125                                    | Pass           |                    |
| Dieldrin   | %     | 88             | 75-125                                    | Pass           |                    |
| Endosulfan I   | %     | 94             |   |                |                    |
| Endosulfan II  | - 10  | 87             | 70-130                                    | Pass           |                    |
|  | %     |                | 70-130                                    | Pass           |                    |
| Endosulfan sulphate                                  | %     | 100            | 75-125                                    | Pass           |                    |
| Endrin   | %     | 87             | 75-125                                    | Pass           |                    |
| Endrin aldehyde                                      | %     | 97             | 75-125                                    | Pass           |                    |
| Endrin ketone  | %     | 91             | 75-125                                    | Pass           |                    |
| g-HCH (Lindane)                                      | %     | 85             | 70-130                                    | Pass           |                    |
| Heptachlor   | %     | 80             | 75-125                                    | Pass           |                    |
| Heptachlor epoxide                                   | %     | 92             | 75-125                                    | Pass           |                    |
| Methoxych or   | %     | 83             | 75-125                                    | Pass           |                    |
| CRM - % Recovery                                     |       | TC T           | To T                                      |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | W     |                |   |                |                    |
| TRH >C10-C16   | %     | 105            | 70-130                                    | Pass           |                    |
| TRH >C34-C40   | %     | 111            | 70-130                                    | Pass           |                    |
| CRM - % Recovery                                     | T.    | r r            | 71 7                                      |                |                    |
| Chromium (VI)  | %     | 101            | 80-120                                    | Pass           | cusumeo.           |
| Test Lab Sample ID QA Source                         | Units | Result 1       | Acceptance<br>Limits                      | Pass<br>Limits | Qualifying<br>Code |
| Spike - % Recovery                                   |       | The second of  | 0 0                                       | 1              |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions |       | Result 1       |   |                |                    |
| TRH C10-C14 L23-Oc0063462 CP                         | %     | 90             | 70-130                                    | Pass           |                    |
| Spike - % Recovery                                   |       | 17             | 54 4                                      | y.             |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions |       | Result 1       |   |                |                    |
| TRH > C10-C16 L23-Oc0063462 CP                       | %     | 100            | 70-130                                    | Pass           |                    |
| Spike - % Recovery                                   |       | 70<br>71       | W W                                       |                |                    |
| Organochlorine Pesticides                            |       | Result 1       |   | li j           |                    |



| Test                           | Lab Sample ID     | QA<br>Source | Units  | Result 1 | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|--------------------------------|-------------------|--------------|--------|----------|----------------------|----------------|--------------------|
| Chlordanes - Total             | L23-Oc0063463     | CP           | %      | 92       | 70-130               | Pass           |                    |
| 4.4'-DDD                       | L23-Oc0063463     | CP           | %      | 110      | 70-130               | Pass           |                    |
| 4.4'-DDE                       | L23-Oc0063463     | CP           | %      | 110      | 70-130               | Pass           |                    |
| 4.4'-DDT                       | L23-Oc0063463     | CP           | %      | 113      | 70-130               | Pass           |                    |
| a-HCH                          | L23-Oc0063463     | CP           | %      | 101      | 70-130               | Pass           |                    |
| Aldrin                         | L23-Oc0063463     | CP           | %      | 106      | 70-130               | Pass           |                    |
| b-HCH                          | L23-Oc0063463     | CP           | %      | 101      | 70-130               | Pass           |                    |
| d-HCH                          | L23-Oc0063463     | CP           | %      | 103      | 70-130               | Pass           |                    |
| Dieldrin                       | L23-Oc0063463     | CP           | %      | 115      | 70-130               | Pass           |                    |
| Endosulfan I                   | L23-Oc0063463     | CP           | %      | 105      | 70-130               | Pass           |                    |
| Endosulfan II                  | L23-Oc0063463     | CP           | %      | 118      | 70-130               | Pass           |                    |
| Endosulfan sulphate            | L23-Oc0063463     | CP           | %      | 99       | 70-130               | Pass           |                    |
| Endrin                         | L23-Oc0063463     | CP           | %      | 116      | 70-130<br>70-130     | Pass           |                    |
| Endrin aldehyde                | L23-Oc0063463     | CP           | %      | 108      | 70-130<br>70-130     | Pass           |                    |
| Endrin alderryde Endrin ketone | L23-Oc0063463     | CP           |        | 110      | 70-130<br>70-130     | Pass           |                    |
|                                |                   |              | %      |          |                      |                |                    |
| g-HCH (Lindane)                | L23-Oc0063463     | CP           | %      | 106      | 70-130               | Pass           |                    |
| Heptachlor                     | L23-Oc0063463     | CP           | %      | 105      | 70-130               | Pass           |                    |
| Heptachlor epoxide             | L23-Oc0063463     | CP           | %      | 88       | 70-130               | Pass           |                    |
| Hexachlorobenzene              | L23-Oc0063463     | CP           | %      | 108      | 70-130               | Pass           |                    |
| Methoxychlor                   | L23-Oc0063463     | CP           | %      | 105      | 70-130               | Pass           |                    |
| Spike - % Recovery             |                   |              |        |          |                      |                |                    |
| Heavy Metals                   |                   |              |        | Result 1 |                      |                |                    |
| Arsenic                        | L23-Oc0063471     | CP           | %      | 98       | 75-125               | Pass           |                    |
| Cadmium                        | L23-Oc0063471     | CP           | %      | 101      | 75-125               | Pass           |                    |
| Chromium                       | L23-Oc0063471     | CP           | %      | 107      | 75-125               | Pass           |                    |
| Copper                         | L23-Oc0063471     | CP           | %      | 103      | 75-125               | Pass           |                    |
| Lead                           | L23-Oc0063471     | CP           | %      | 116      | 75-125               | Pass           |                    |
| Mercury                        | L23-Oc0063471     | CP           | %      | 106      | 75-125               | Pass           |                    |
| Nickel                         | L23-Oc0063471     | CP           | %      | 103      | 75-125               | Pass           |                    |
| Zinc                           | L23-Oc0063471     | CP           | %      | 100      | 75-125               | Pass           |                    |
| Spike - % Recovery             |                   |              |        |          |                      |                |                    |
| Total Recoverable Hydrocarbons | - 1999 NEPM Fract | tions        |        | Result 1 |                      |                |                    |
| TRH C10-C14                    | L23-Oc0063474     | CP           | %      | 90       | 70-130               | Pass           |                    |
| Spike - % Recovery             |                   |              |        |          |                      |                |                    |
| Total Recoverable Hydrocarbons | - 2013 NEPM Fract | tions        |        | Result 1 |                      |                |                    |
| TRH >C10-C16                   | L23-Oc0063474     | CP           | %      | 100      | 70-130               | Pass           |                    |
| Spike - % Recovery             |                   |              |        |          |                      |                |                    |
| Organochlorine Pesticides      |                   |              |        | Result 1 |                      |                |                    |
| Chlordanes - Total             | L23-Oc0063482     | CP           | %      | 91       | 70-130               | Pass           |                    |
| 4.4'-DDD                       | L23-Oc0063482     | CP           | %      | 98       | 70-130               | Pass           |                    |
| 4.4'-DDE                       | L23-Oc0063482     | CP           | %      | 117      | 70-130               | Pass           |                    |
| a-HCH                          | L23-Oc0063482     | CP           | %      | 93       | 70-130               | Pass           |                    |
| Aldrin                         | L23-Oc0063482     | CP           | %      | 92       | 70-130               | Pass           |                    |
| b-HCH                          | L23-Oc0063482     | CP           | %      | 83       | 70-130               | Pass           |                    |
| d-HCH                          | L23-Oc0063482     | CP           | %      | 91       | 70-130               | Pass           |                    |
| Dieldrin                       | L23-Oc0063482     | CP           | %      | 103      | 70-130               | Pass           |                    |
| Endosulfan I                   | L23-Oc0063482     | CP           | %      | 104      | 70-130               | Pass           |                    |
| Endosulfan II                  | L23-Oc0063482     | CP           | %      | 91       | 70-130<br>70-130     | Pass           |                    |
| Endosulfan sulphate            | L23-Oc0063482     | CP           | %<br>% | 102      | 70-130<br>70-130     | Pass           |                    |
| Endrin                         | L23-Oc0063482     | CP           | %      | 87       | 70-130<br>70-130     | Pass           |                    |
|                                | L23-Oc0063482     | CP           | %<br>% | 82       | 70-130<br>70-130     | Pass           |                    |
| Endrin aldehyde                |                   |              |        |          | 70-130<br>70-130     |                |                    |
| Endrin ketone                  | L23-Oc0063482     | CP<br>CB     | %      | 99       |                      | Pass           |                    |
| g-HCH (Lindane)                | L23-Oc0063482     | CP           | %      | 87       | 70-130<br>70-130     | Pass           |                    |
| Heptachlor                     | L23-Oc0063482     | CP           | %      | 84       | 70-130               | Pass           |                    |



| Test                       | Lab Sample ID  | QA<br>Source | Units | Result 1    | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|----------------------------|--|--------------|-------|-------------|----------------------|----------------|--------------------|
| Heptachlor epoxide         | L23-Oc0063482  | CP           | %     | 95          | 70-130               | Pass           |                    |
| Hexachlorobenzene          | L23-Oc0063482  | CP           | %     | 90          | 70-130               | Pass           |                    |
| Methoxychlor               | L23-Oc0063482  | CP           | %     | 83          | 70-130               | Pass           |                    |
| Spike - % Recovery         | West 100 Care 100 Car |              |       | N 4         |                      |                |                    |
| Total Recoverable Hydrocar | bons - 1999 NEPM Fract   | ions         |       | Result 1    |                      |                |                    |
| TRH C6-C9                  | L23-Oc0063483  | CP           | %     | 96          | 70-130               | Pass           |                    |
| Spike - % Recovery         | W  | 10:          |       |             | 22 22                | Ī              |                    |
| BTEX                       | ep.  | 10           |       | Result 1    | Į.                   | ][]            |                    |
| Benzene                    | L23-Oc0063483  | CP           | %     | 100         | 70-130               | Pass           |                    |
| Toluene                    | L23-Oc0063483  | CP           | %     | 89          | 70-130               | Pass           |                    |
| Ethylbenzene               | L23-Oc0063483  | CP           | %     | 100         | 70-130               | Pass           |                    |
| m&p-Xylenes                | L23-Oc0063483  | CP           | %     | 98          | 70-130               | Pass           |                    |
| o-Xylene                   | L23-Oc0063483  | CP           | %     | 108         | 70-130               | Pass           |                    |
| Xylenes - Total*           | L23-Oc0063483  | CP           | %     | 101         | 70-130               | Pass           |                    |
| Spike - % Recovery         |  |              |       |             |                      |                |                    |
| Total Recoverable Hydrocar | bons - 2013 NEPM Fract   | ions         |       | Result 1    |                      |                |                    |
| Naphthalene                | L23-Oc0063483  | CP           | %     | 116         | 70-130               | Pass           |                    |
| TRH C6-C10                 | L23-Oc0063483  | CP           | %     | 95          | 70-130               | Pass           |                    |
| Spike - % Recovery         |  |              |       |             |                      |                |                    |
| Total Recoverable Hydrocar | bons - 1999 NEPM Fract   | ions         |       | Result 1    | j j                  |                |                    |
| TRH C10-C14                | L23-Oc0063490  | CP           | %     | 80          | 70-130               | Pass           |                    |
| Spike - % Recovery         |  | un           |       | Listen Port |                      | -              |                    |
| Total Recoverable Hydrocar | bons - 2013 NEPM Fract   | ions         |       | Result 1    |                      |                |                    |
| TRH >C10-C16               | L23-Oc0063490  | CP           | %     | 80          | 70-130               | Pass           |                    |
| Spike - % Recovery         |  |              |       |             | S 4                  |                |                    |
| Heavy Metals               |  |              |       | Result 1    |                      |                |                    |
| Arsenic                    | L23-Oc0063492  | CP           | %     | 106         | 75-125               | Pass           |                    |
| Cadmium                    | L23-Oc0063492  | CP           | %     | 107         | 75-125               | Pass           |                    |
| Chromium                   | L23-Oc0063492  | CP           | %     | 111         | 75-1 <b>25</b>       | Pass           |                    |
| Copper                     | L23-Oc0063492  | CP           | %     | 106         | 75-125               | Pass           |                    |
| Lead                       | L23-Oc0063492  | CP           | %     | 100         | 75-125               | Pass           |                    |
| Mercury                    | L23-Oc0063492  | CP           | %     | 107         | 75-125               | Pass           |                    |
| Nickel                     | L23-Oc0063492  | CP           | %     | 109         | 75-125               | Pass           |                    |
| Zinc                       | L23-Oc0063492  | CP           | %     | Q05         | 75-125               | Fail           | Q05                |
| Spike - % Recovery         |  |              |       | 20 M        |                      |                |                    |
| Heavy Metals               |  |              |       | Result 1    |                      |                |                    |
| Arsenic                    | L23-Oc0063504  | CP           | %     | 86          | 75-125               | Pass           |                    |
| Cadmium                    | L23-Oc0063504  | CP           | %     | 116         | 75-125               | Pass           |                    |
| Chromium                   | L23-Oc0063504  | CP           | %     | 86          | 75-125               | Pass           |                    |
| Lead                       | L23-Oc0063504  | CP           | %     | 95          | 75-125               | Pass           |                    |
| Mercury                    | L23-Oc0063504  | CP           | %     | 117         | 75-125               | Pass           |                    |
| Nickel                     | L23-Oc0063504  | CP           | %     | 112         | 75-125               | Pass           |                    |
| Zinc                       | L23-Oc0063504  | CP           | %     | 66          | 75-125               | Fail           | Q08                |
| Spike - % Recovery         |  |              |       |             |                      |                |                    |
| Total Recoverable Hydrocar | bons - 1999 NEPM Fract   | ions         |       | Result 1    |                      |                |                    |
| TRH C6-C9                  | L23-Oc0063505  | CP           | %     | 107         | 70-130               | Pass           |                    |
| TRH C10-C14                | L23-Oc0063505  | СР           | %     | 87          | 70-130               | Pass           |                    |
| Spike - % Recovery         | 7/1  | 7/4 VX       |       |             | 10/ 1//<br>20 20     |                |                    |
| BTEX                       | - A  | No           |       | Result 1    |                      |                |                    |
| Benzene                    | L23-Oc0063505  | CP           | %     | 101         | 70-130               | Pass           |                    |
| Toluene                    | L23-Oc0063505  | CP           | %     | 96          | 70-130               | Pass           |                    |
| Ethylbenzene               | L23-Oc0063505  | CP           | %     | 98          | 70-130               | Pass           |                    |
| m&p-Xylenes                | L23-Oc0063505  | CP           | %     | 100         | 70-130               | Pass           |                    |
| o-Xylene                   | L23-Oc0063505  | CP           | %     | 108         | 70-130               | Pass           |                    |



| Test  | Lab Sample ID   | QA<br>Source                             | Units   | Result 1  |  |  | Acceptance<br>Limits   | Pass<br>Limits   | Qualifying<br>Code |
|---|---|--|---|---|--|--|--|--|--------------------|
| Xylenes - Total*  | L23-Oc0063505   | CP                                       | %   | 102   |  |  | 70-130   | Pass   |                    |
| Spike - % Recovery  |   |  |   |   |  |  |  |  |                    |
| Total Recoverable Hydroca   | bons - 2013 NEPM Fract  | ions                                     | ,   | Result 1  |  | Ĭ  |  |  |                    |
| Naphthalene   | L23-Oc0063505   | CP                                       | %   | 100   |  |  | 70-130   | Pass   |                    |
| TRH C6-C10  | L23-Oc0063505   | CP                                       | %   | 107   |  |  | 70-130   | Pass   |                    |
| Spike - % Recovery  |   |  |   |   |  |  |  | . ]  |                    |
| Organochlorine Pesticides   | 216   | 522 - 201                                |   | Result 1  |  |  |  | į į  |                    |
| Chlordanes - Total  | L23-Oc0063505   | CP                                       | %   | 87  |  |  | 70-130   | Pass   |                    |
| 4.4'-DDD  | L23-Oc0063505   | CP                                       | %   | 92  |  |  | 70-130   | Pass   |                    |
| 4.4'-DDE  | L23-Oc0063505   | CP                                       | %   | 103   |  |  | 70-130   | Pass   |                    |
| 4,4'-DDT  | L23-Oc0063505   | CP                                       | %   | 99  |  | ĺ  | 70-130   | Pass   |                    |
| a-HCH   | L23-Oc0063505   | CP                                       | %   | 100   |  |  | 70-130   | Pass   |                    |
| Aldrin  | L23-Oc0063505   | CP                                       | %   | 107   | 2  |  | 70-130   | Pass   |                    |
| b-HCH   | L23-Oc0063505   | CP                                       | %   | 91  |  |  | 70-130   | Pass   |                    |
| d-HCH   | L23-Oc0063505   | CP                                       | %   | 101   |  |  | 70-130   | Pass   |                    |
| Dieldrin  | L23-Oc0063505   | CP                                       | %   | 110   |  |  | 70-130   | Pass   |                    |
| Endosulfan I  | L23-Oc0063505   | CP                                       | %   | 96  |  |  | 70-130   | Pass   |                    |
| Endosulfan II   | L23-Oc0063505   | CP                                       | %   | 107   |  |  | 70-130   | Pass   |                    |
| Endosulfan sulphate   | L23-Oc0063505   | CP                                       | %   | 89  |  |  | 70-130   | Pass   |                    |
| Endrin  | L23-Oc0063505   | CP                                       | %   | 102   | i.   |  | 70-130   | Pass   |                    |
| Endrin aldehyde   | L23-Oc0063505   | CP                                       | %   | 83  |  | ĺ  | 70-130   | Pass   |                    |
| Endrin ketone   | L23-Oc0063505   | CP                                       | %   | 85  |  | Ī  | 70-130   | Pass   |                    |
| g-HCH (Lindane)   | L23-Oc0063505   | CP                                       | %   | 109   |  |  | 70-130   | Pass   |                    |
| Heptachlor  | L23-Oc0063505   | CP                                       | %   | 91  |  |  | 70-130   | Pass   |                    |
| Heptachlor epoxide  | L23-Oc0063505   | CP                                       | %   | 100   | 1  | 1  | 70-130   | Pass   |                    |
| Hexachlorobenzene   | L23-Oc0063505   | CP                                       | %   | 111   |  |  | 70-130   | Pass   |                    |
| r le Addrillo lo Delizerie  | L23-00000000  | U  | 70  | 1.517   |  |  | 10-100   | 1 000  |                    |
| Methovychlor  | 1.23-0-0063505  | CD                                       | 0/.   | 114   |  |  | 70-130   | Dage   |                    |
| Methoxychlor  | L23-Oc0063505   | CP                                       | %   | 114   |  |  | 70-130   | Pass   |                    |
| Spike - % Recovery  |   | Win (1970)                               | %   | P .   |  |  | 70-130   | Pass   |                    |
| Spike - % Recovery<br>Total Recoverable Hydrocal  | bons - 2013 NEPM Fract  | ions                                     |   | Result 1  |  |  |  |  |                    |
| Spike - % Recovery  | rbons - 2013 NEPM Fract<br>L23-Oc0063505  | ions<br>CP                               | %   | P .   |  |  | 70-130   | Pass   | Qualifying         |
| Spike - % Recovery<br>Total Recoverable Hydrocal  | bons - 2013 NEPM Fract  | ions                                     |   | Result 1  |  |  |  |  | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16  | rbons - 2013 NEPM Fract<br>L23-Oc0063505  | CP QA                                    | %   | Result 1  |  |  | 70-130<br>Acceptance   | Pass<br>Pass   | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16 Test   | rbons - 2013 NEPM Fract<br>L23-Oc0063505  | CP QA                                    | %   | Result 1  | Result 2   | RPD  | 70-130<br>Acceptance   | Pass<br>Pass   | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16 Test Duplicate   | rbons - 2013 NEPM Fract<br>L23-Oc0063505  | CP QA                                    | %   | Result 1<br>94<br>Result 1  | Result 2   | RPD<br>9.0   | 70-130<br>Acceptance   | Pass<br>Pass   | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16 Test  Duplicate Heavy Metals   | rbons - 2013 NEPM Fract<br>L23-Oc0063505<br>Lab Sample ID   | CP<br>QA<br>Source                       | %<br>Units  | Result 1 94 Result 1 Result 1   | 0.0000000000000000000000000000000000000  | 1 19,000,000   | 70-130 Acceptance Limits   | Pass<br>Pass<br>Limits                                 | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16 Test  Duplicate Heavy Metals Arsenic   | rbons - 2013 NEPM Fract<br>L23-Oc0063505<br>Lab Sample ID   | CP QA Source                             | %<br>Units  | Result 1 94 Result 1 Result 1 2.6   | 2.4  | 9.0  | 70-130 Acceptance Limits   | Pass<br>Pass<br>Limits                                 | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH >C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium  | L23-Oc0063470<br>L23-Oc0063470  | CP QA Source                             | % Units  mg/kg mg/kg  | Result 1  94  Result 1  Result 1  2.6  0.2  | 2.4<br>0.2   | 9.0<br>3,3   | 70-130 Acceptance Limits 30% 30%                                 | Pass<br>Pass<br>Limits<br>Pass<br>Pass                 | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocar TRH >C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium   | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP CP CP                                 | % Units  mg/kg mg/kg mg/kg mg/kg  | Result 1 94 Result 1 Result 1 2.6 0.2 6.6   | 2.4<br>0.2<br>5.9  | 9.0<br>3,3<br>11   | 70-130<br>Acceptance<br>Limits<br>30%<br>30%<br>30%              | Pass<br>Pass<br>Limits<br>Pass<br>Pass                 | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper   | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP CP CP CP                              | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1  94  Result 1  2.6  0.2  6.6  8.8  | 2.4<br>0.2<br>5.9<br>8.2   | 9.0<br>3.3<br>11<br>7.7  | 70-130 Acceptance Limits 30% 30% 30% 30%                         | Pass<br>Limits<br>Pass<br>Pass<br>Pass                 | Qualifying         |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury  | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470   | CP CP CP CP CP CP CP                     | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1 94 Result 1 2.6 0.2 6.6 8.8 34 0.09  | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08   | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1  | 70-130 Acceptance Limits 30% 30% 30% 30% 30% 30% 30%             | Pass Pass Limits  Pass Pass Pass Pass Pass Pass        | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel   | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470   | CP QA Source                             | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1 94 Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5  | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4  | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9                                 | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30%        | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocar TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc  | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP CP CP CP CP CP CP                     | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1 94 Result 1 2.6 0.2 6.6 8.8 34 0.09  | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08   | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1  | 70-130 Acceptance Limits 30% 30% 30% 30% 30% 30% 30%             | Pass Pass Limits Pass Pass Pass Pass Pass Pass Pass    | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocar TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate  | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP C | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1 94 Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5  | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120   | 9.0<br>3,3<br>11<br>7.7<br>8.4<br>5.1<br>8.9                                 | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30%        | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocar TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocar   | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP C | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg  | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1   | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120   | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0                          | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30%    | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying<br>Code |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9   | L23-Oc0063470   | CP C | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg   | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20                                      | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120<br>Result 2<br>< 20                         | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0<br>RPD                   | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying         |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14   | L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470<br>L23-Oc0063470  | CP C | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg                            | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20                                 | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120<br>Result 2<br>< 20<br>< 20                 | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0                          | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying         |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28   | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | mg/kg                               | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20 < 50                            | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120<br>Result 2<br>< 20<br>< 20<br>< 50         | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0<br>RPD<br><1<br><1       | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36   | L23-Oc0063470   | CP C | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg                            | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20                                 | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120<br>Result 2<br>< 20<br>< 20                 | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0<br>RPD<br><1             | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocar TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocar TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate                                   | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | mg/kg                               | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20 < 50 < 50                       | 2.4<br>0.2<br>5.9<br>8.2<br>31<br>0.08<br>1.4<br>120<br>Result 2<br>< 20<br>< 20<br>< 50<br>< 50 | 9.0<br>3.3<br>11<br>7.7<br>8.4<br>5.1<br>8.9<br>8.0<br>RPD<br><1<br><1<br><1 | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate BTEX                              | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | % Units  mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg                            | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20 < 50 < 50  Result 1             | 2.4 0.2 5.9 8.2 31 0.08 1.4 120  Result 2 < 20 < 20 < 50 < 50  Result 2                          | 9.0 3.3 11 7.7 8.4 5.1 8.9 8.0  RPD <1 <1 <1 <1 RPD                          | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate BTEX Benzene                      | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | mg/kg                               | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20 < 50 < 50  Result 1 < 0.1       | 2.4 0.2 5.9 8.2 31 0.08 1.4 120  Result 2 < 20 < 50 < 50 < 50  Result 2 < 0.1                    | 9.0 3.3 11 7.7 8.4 5.1 8.9 8.0  RPD <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1   | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying         |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate BTEX Benzene Toluene              | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | % Units  mg/kg    | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 50 < 50  Result 1 < 0.1 < 0.1      | 2.4 0.2 5.9 8.2 31 0.08 1.4 120  Result 2 < 20 < 50 < 50 < 80  Result 2 < 0.1 < 0.1              | 9.0 3.3 11 7.7 8.4 5.1 8.9 8.0  RPD <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1   | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate BTEX Benzene Toluene Ethylbenzene | L23-Oc0063470 L23-Oc0063471 | CP C | mg/kg | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 20 < 50 < 50  Result 1 < 0.1 < 0.1 | 2.4 0.2 5.9 8.2 31 0.08 1.4 120  Result 2 < 20 < 50 < 50 < 50  Result 2 < 0.1 < 0.1              | 9.0 3.3 11 7.7 8.4 5.1 8.9 8.0  RPD <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1         | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Pass Pass Pass Pass Pass Pass                | Qualifying Code    |
| Spike - % Recovery Total Recoverable Hydrocal TRH > C10-C16  Test  Duplicate Heavy Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc Duplicate Total Recoverable Hydrocal TRH C6-C9 TRH C10-C14 TRH C15-C28 TRH C29-C36 Duplicate BTEX Benzene Toluene              | L23-Oc0063470 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471 L23-Oc0063471   | CP C | % Units  mg/kg    | Result 1 94  Result 1 2.6 0.2 6.6 8.8 34 0.09 1.5 130  Result 1 < 20 < 50 < 50  Result 1 < 0.1 < 0.1      | 2.4 0.2 5.9 8.2 31 0.08 1.4 120  Result 2 < 20 < 50 < 50 < 80  Result 2 < 0.1 < 0.1              | 9.0 3.3 11 7.7 8.4 5.1 8.9 8.0  RPD <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1   | 70-130 Acceptance Limits  30% 30% 30% 30% 30% 30% 30% 30% 30% 30 | Pass Pass Limits  Pass Pass Pass Pass Pass Pass Pass P | Qualifying Code    |



| Duplicate  |                          |                 |              |            |           |             |         | 4              |
|--|--------------------------|-----------------|--------------|------------|-----------|-------------|---------|----------------|
| Total Recoverable Hydroca  | rhons - 2013 NEPM Fracti | ions            |              | Result 1   | Result 2  | RPD         |         | 1 2            |
| Naphthalene  | L23-Oc0063471            | CP              | mg/kg        | < 0.5      | < 0.5     | <1          | 30%     | Pass           |
| TRH C6-C10   | L23-Oc0063471            | CP              | mg/kg        | < 20       | < 20      | <1          | 30%     | Pass           |
| Duplicate  | 1 223 000000171          |                 | I marks      |            | 20        |             | 0.07,0  | 1 000          |
| Total Recoverable Hydroca  | rhons - 2013 NEPM Fracti | ions            |              | Result 1   | Result 2  | RPD         |         |                |
| TRH >C10-C16   | L23-Oc0063471            | CP              | mg/kg        | < 50       | < 50      | <1          | 30%     | Pass           |
| TRH > C16-C34  | L23-Oc0063471            | CP              | mg/kg        | < 100      | < 100     | <1          | 30%     | Pass           |
| TRH >C34-C40   | L23-Oc0063471            | CP              | mg/kg        | < 100      | < 100     | <1          | 30%     | Pass           |
| Duplicate  | L23-000003471            | CF              | ing/kg       | < 100      | S 100     |             | 30.76   | Pass           |
| Sample Properties  |                          |                 |              | Result 1   | Result 2  | RPD         |         | 1              |
| % Moisture   | L23-Oc0063471            | CP              | %            | 6.0        | 5.8       | 3.3         | 30%     | Pass           |
| AC RC SCHOOL AND A PROPERTY OF THE SCHOOL AND A SCHOOL AN | L23-000003471            | CP              | 70           | 0.0        | 0.0       | 0.0         | 3076    | Pass           |
| Duplicate  | -h 1000 NEDM F           |                 |              | Desuit 4   | Desids 2  | RPD         |         | 1 1            |
| Total Recoverable Hydroca  |                          | 21-13-20 (A.S.) | 22062        | Result 1   | Result 2  | 1000        | 200/    | -              |
| TRH C10-C14  | L23-Oc0063474            | CP              | mg/kg        | < 20       | < 20      | <1          | 30%     | Pass           |
| TRH C15-C28  | L23-Oc0063474            | CP              | mg/kg        | < 50       | < 50      | <1          | 30%     | Pass           |
| TRH C29-C36  | L23-Oc0063474            | CP              | mg/kg        | < 50       | < 50      | <1          | 30%     | Pass           |
| Duplicate Destricts  |                          |                 |              | D          | D         | PPP         |         | - 0            |
| Organochlorine Pesticides  | 100 0 0000               |                 |              | Result 1   | Result 2  | RPD         |         |                |
| Chlordanes - Total   | L23-Oc0063474            | CP              | mg/kg        | < 0.1      | < 0.1     | <1          | 30%     | Pass           |
| 4.4'-DDD   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| 4,4'-DDE   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| 4.4'-DDT   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| a-HCH  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Aldrin   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| b-HCH  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| d-HCH  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Dieldrin   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endosulfan I   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endosulfan II  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endosulfan sulphate  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endrin   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endrin aldehyde  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Endrin ketone  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| g-HCH (Lindane)  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Heptachlor   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Heptachlor epoxide   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Hexachlorobenzene  | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Methoxychlor   | L23-Oc0063474            | CP              | mg/kg        | < 0.05     | < 0.05    | <1          | 30%     | Pass           |
| Duplicate  |                          |                 |              |            |           |             |         |                |
| Total Recoverable Hydroca  | rbons - 2013 NEPM Fract  | ons             | W.C.         | Result 1   | Result 2  | RPD         |         | li i           |
| TRH >C10-C16   | L23-Oc0063474            | CP              | mg/kg        | < 50       | < 50      | <1          | 30%     | Pass           |
| TRH >C16-C34   | L23-Oc0063474            | CP              | mg/kg        | < 100      | < 100     | <1          | 30%     | Pass           |
| TRH >C34-C40   | L23-Oc0063474            | CP              | mg/kg        | < 100      | < 100     | <1          | 30%     | Pass           |
| Duplicate  | herosocialists.          |                 | in militaria | 100        | Me GEOGRA |             |         | Individual and |
| Sample Properties  |                          |                 |              | Result 1   | Result 2  | RPD         |         |                |
| % Moisture   | L23-Oc0063474            | CP              | %            | 1.7        | 1.9       | 11          | 30%     | Pass           |
| Duplicate  | 225 55555774             | 03              | W            | 10         | V         | 0 1         | 00/0    | V              |
| Heavy Metals   |                          |                 |              | Result 1   | Result 2  | RPD         |         |                |
| Arsenic  | L23-Oc0063481            | CP              | mg/kg        | 3.0        | 2.8       | 6.5         | 30%     | Pass           |
| Cadmium  | L23-Oc0063481            | CP              | mg/kg        | 0.1        | 0.1       | 3.7         | 30%     | Pass           |
|  | L23-Oc0063481            | CP              |              | 7.2        | 7.4       | 3.2         | 30%     | 75V 700 05350  |
| Chromium   |                          | CP              | mg/kg        | Y 2002 171 | 9689-1-   | 1 018889 11 | 7270777 | Pass           |
| Copper   | L23-Oc0063481            | N 33300         | mg/kg        | 9.3        | 8.6       | 8.4         | 30%     | Pass           |
| Lead   | L23-Oc0063481            | CP              | mg/kg        | 29         | 23        | 24          | 30%     | Pass           |
| Mercury  | L23-Oc0063481            | CP              | mg/kg        | 0.05       | 0.05      | 13          | 30%     | Pass           |
| Nickel   | L23-Oc0063481            | CP              | mg/kg        | 1.6        | 1.7       | 2.7         | 30%     | Pass           |
| Zinc   | L23-Oc0063481            | CP              | mg/kg        | 160        | 140       | 13          | 30%     | Pass           |



| Duplicate                        |  |              |                |  |                                |          |            |         |
|----------------------------------|--|--------------|----------------|--|--------------------------------|----------|------------|---------|
| Total Recoverable Hydrocarbons - | 1999 NEPM Fract  | ions         |                | Result 1   | Result 2                       | RPD      |            | 1       |
| TRH C6-C9                        | L23-Oc0063482  | CP           | mg/kg          | < 20   | < 20                           | <1       | 30%        | Pass    |
| TRH C10-C14                      | L23-Oc0063482  | CP           | mg/kg          | < 20   | < 20                           | <1       | 30%        | Pass    |
| TRH C15-C28                      | L23-Oc0063482  | CP           | mg/kg          | < 50   | < 50                           | <1       | 30%        | Pass    |
| TRH C29-C36                      | L23-Oc0063482  | CP           | mg/kg          | 63   | 61                             | 3.3      | 30%        | Pass    |
| Duplicate                        | LEG COCCOCTOE  | 0            | Inging         | - 00   |                                | 0.0      | 0070       | 7 000   |
| BTEX                             |  | Result 1     | Result 2       | RPD  |                                | 15       |            |         |
| Benzene                          | L23-Oc0063482  | CP           | mg/kg          | < 0.1  | < 0.1                          | <1       | 30%        | Pass    |
| Toluene                          | L23-Oc0063482  | CP           | mg/kg          | < 0.1  | < 0.1                          | <1       | 30%        | Pass    |
| Ethylbenzene                     | L23-Oc0063482  | CP           | 5 - 30500 SEME | < 0.1  | < 0.1                          | <1       | 30%        | Pass    |
|                                  | L23-Oc0063482  | CP           | mg/kg          | < 0.2  | < 0.2                          | <1       | 30%        | Pass    |
| m&p-Xylenes                      |  | CP           | mg/kg          |  |                                |          |            |         |
| o-Xylene                         | L23-Oc0063482<br>L23-Oc0063482   | CP           | mg/kg          | < 0.1  | < 0.1                          | <1<br><1 | 30%<br>30% | Pass    |
| Xylenes - Total*                 | LZ3-UCUU6348Z  | L CP         | mg/kg          | < 0.3  | < 0.3                          |          | 30%        | Pass    |
| Duplicate                        | 0040 NEDIA E   |              |                | D 11.4   | D # 0                          | DDD      |            |         |
| Total Recoverable Hydrocarbons - |  |              | Lasta Mara     | Result 1   | Result 2                       | RPD      | 000        | - Acces |
| Naphthalene<br>TDU 00 040        | L23-Oc0063482  | CP           | mg/kg          | < 0.5  | < 0.5                          | <1       | 30%        | Pass    |
| TRH C6-C10                       | L23-Oc0063482  | CP           | mg/kg          | < 20   | < 20                           | <1       | 30%        | Pass    |
| Duplicate                        |  | • 0010000    |                | Vancous  | T                              |          |            |         |
| Total Recoverable Hydrocarbons - |  | 2000 St. 500 | ger year       | Result 1   | Result 2                       | RPD      | 2421       |         |
| TRH >C10-C16                     | L23-Oc0063482  | CP           | mg/kg          | < 50   | < 50                           | <1       | 30%        | Pass    |
| TRH >C16-C34                     | L23-Oc0063482  | CP           | mg/kg          | < 100  | < 100                          | <1       | 30%        | Pass    |
| TRH >C34-C40                     | L23-Oc0063482  | CP           | mg/kg          | < 100  | < 100                          | <1       | 30%        | Pass    |
| Duplicate                        |  |              |                | Water and the same of the same | Para service de la constantina | 1        |            | V       |
| Sample Properties                | T. 1200 N. 100 N. 1 | 2000         | 5500           | Result 1   | Result 2                       | RPD      | 1200.910   | 1 2 2   |
| % Moisture                       | L23-Oc0063482  | CP           | %              | 5.7  | 5.7                            | <1       | 30%        | Pass    |
| Duplicate                        | ,,,  |              | 740            |  |                                |          |            |         |
| Sample Properties                | Y  | <u> </u>     | ř.             | Result 1   | Result 2                       | RPD      |            |         |
| % Moisture                       | L23-Oc0063483  | CP           | %              | 4.8  | 5.2                            | 7.9      | 30%        | Pass    |
| Duplicate                        |  |              | 10             |  |                                |          |            |         |
| Organochlorine Pesticides        | ý.   | 0            | NO.            | Result 1   | Result 2                       | RPD      |            |         |
| Chlordanes - Total               | L23-Oc0063485  | CP           | mg/kg          | < 0.1  | < 0.1                          | <1       | 30%        | Pass    |
| 8450000                          | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| 4.4'-DDE                         | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| 4.4'-DDT                         | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| a-HCH                            | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Aldrin                           | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| b-HCH                            | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| d-HCH                            | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Dieldrin                         | L23-Oc0063485  | CP           | mg/kg          | 0.48   | 0.45                           | 7.1      | 30%        | Pass    |
| Endosulfan I                     | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Endosulfan II                    | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Endosulfan sulphate              | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Endrin                           | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Endrin aldehyde                  | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Endrin ketone                    | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| g-HCH (Lindane)                  | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Heptachlor                       | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Heptachlor epoxide               | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Hexachlorobenzene                | L23-Oc0063485  | CP           | mg/kg          | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Methoxychlor                     | L23-Oc0063485  | CP           |                | < 0.05   | < 0.05                         | <1       | 30%        | Pass    |
| Duplicate                        | LEG-000003400  | 0-           | mg/kg          | ~ 0.05   | ~ 0.00                         |          | JU 76      | 1 433   |
|                                  |  |              |                | Docult 4   | Popult 2                       | DDD      |            | 1 1     |
| Sample Properties                | 1 22 0-0062496   | СР           | 0/             | Result 1   | Result 2                       | RPD      | 200/       | Page    |
| % Moisture                       | L23-Oc0063486  | CP           | %              | 4.5  | 4.9                            | 7.4      | 30%        | Pass    |
| Duplicate                        |  |              |                |  | Tasana I                       | Dee 1    |            | W 8     |
| Sample Properties                |  | CP           | 7/22           | Result 1   | Result 2                       | RPD      | 2007       |         |
| % Moisture                       | L23-Oc0063489  | CD.          | %              | 5.0  | 6.0                            | 17       | 30%        | Pass    |

| Duplicate                                    |   |                 |                      | 33                                      | 2  | - 63     |           | _8                                      |
|--|---|-----------------|----------------------|---|--|----------|-----------|---|
| Heavy Metals                                 |   |                 |                      | Result 1                                | Result 2   | RPD      |           |   |
| Cadmium                                      | L23-Oc0063491                             | CP              | mg/kg                | 0.1                                     | 0.1  | 12       | 30%       | Pass                                    |
| Copper                                       | L23-Oc0063491                             | CP              | mg/kg                | 11                                      | 9.6  | 16       | 30%       | Pass                                    |
| Lead   | L23-Oc0063491                             | CP              | mg/kg                | 36                                      | 28   | 27       | 30%       | Pass                                    |
| Mercury                                      | L23-Oc0063491                             | CP              | mg/kg                | 0.09                                    | 0,10   | 6.3      | 30%       | Pass                                    |
| Nickel                                       | L23-Oc0063491                             | CP              | mg/kg                | 2.1                                     | 1.6  | 26       | 30%       | Pass                                    |
| Zinc   | L23-Oc0063491                             | CP              | mg/kg                | 240                                     | 230  | 2.4      | 30%       | Pass                                    |
| Duplicate                                    |   |                 |                      | 10                                      |  | 0 6      | 7.7.4     |   |
| Total Recoverable Hydrocari                  | bons - 1999 NEPM Fracti                   | ons             | ar.                  | Result 1                                | Result 2   | RPD      |           |   |
| TRH C6-C9                                    | L23-Oc0063492                             | CP              | mg/kg                | < 20                                    | < 20   | <1       | 30%       | Pass                                    |
| TRH C10-C14                                  | L23-Oc0063492                             | CP              | mg/kg                | < 20                                    | < 20   | <1       | 30%       | Pass                                    |
| TRH C15-C28                                  | L23-Oc0063492                             | CP              | mg/kg                | < 50                                    | < 50   | <1       | 30%       | Pass                                    |
| TRH C29-C36                                  | L23-Oc0063492                             | CP              | mg/kg                | < 50                                    | < 50   | <1       | 30%       | Pass                                    |
| Duplicate                                    | 123-00000432                              |                 | indiva.              |   | 1 4.50   |          | 0070      | 1 433                                   |
| BTEX   |   |                 |                      | Result 1                                | Result 2   | RPD      |           |   |
| Benzene                                      | L23-Oc0063492                             | CP              | mg/kg                | < 0.1                                   | < 0.1  | <1       | 30%       | Pass                                    |
| Toluene                                      | L23-0c0063492                             | CP              | 1 1 December 2000 to | < 0.1                                   | < 0.1  | <1       | 30%       | Pass                                    |
|  | L23-Oc0063492                             | CP              | mg/kg                | 1 | < 0.1  | <1       | 7.97.000  | 10.000                                  |
| Ethylbenzene<br>min Vulence                  |   |                 | mg/kg                | < 0.1                                   | +  |          | 30%       | Pass                                    |
| m&p-Xylenes                                  | L23-Oc0063492                             | CP              | mg/kg                | < 0.2                                   | < 0.2  | <1       | 30%       | Pass                                    |
| o-Xylene                                     | L23-Oc0063492                             | CP              | mg/kg                | < 0.1                                   | < 0.1  | <1       | 30%       | Pass                                    |
| Xylenes - Total*                             | L23-Oc0063492                             | CP              | mg/kg                | < 0.3                                   | < 0.3  | <1       | 30%       | Pass                                    |
| Duplicate                                    | HINTOONING MANAGEMENT OF THE TOTAL OF     | SACHSVINI I     |                      | I commence                              | F  |          |           | 1 1                                     |
| Total Recoverable Hydrocari                  |   | 100 100 100 100 | 88888 <b>3</b> 8888  | Result 1                                | Result 2   | RPD      | 2027      | 122102401                               |
| Naphthalene                                  | L23-Oc0063492                             | CP              | mg/kg                | < 0.5                                   | < 0.5  | <1       | 30%       | Pass                                    |
| TRH C6-C10                                   | L23-Oc0063492                             | CP              | mg/kg                | < 20                                    | < 20   | <1       | 30%       | Pass                                    |
| Duplicate                                    |   |                 |                      | I management                            | Victoria de la Companya de la Compan | 1        |           |   |
| Organochlorine Pesticides                    | Turkovanostosta esta A                    |                 | ROWWAND.             | Result 1                                | Result 2   | RPD      | 01670     | 100000                                  |
| Chlordanes - Total                           | L23-Oc0063492                             | CP              | mg/kg                | < 0.1                                   | < 0.1  | <1       | 30%       | Pass                                    |
| 4.4'-DDD                                     | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| 4.4'-DDE                                     | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| 4.4'-DDT                                     | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| a-HCH  | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Aldrin                                       | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| b-HCH  | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| d-HCH  | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Dieldrin                                     | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endosulfan I                                 | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endosulfan II                                | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endosulfan sulphate                          | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endrin                                       | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endrin aldehyde                              | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Endrin ketone                                | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| g-HCH (Lindane)                              | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Heptachlor                                   | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Heptachlor epoxide                           | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Hexachlorobenzene                            | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Methoxychlor                                 | L23-Oc0063492                             | CP              | mg/kg                | < 0.05                                  | < 0.05   | <1       | 30%       | Pass                                    |
| Duplicate                                    | L. T. | -3/-            | 3.3                  |   |  |          |           | 1.1.500000                              |
|  | bons - 2013 NEPM Fracti                   | ons             |                      | Result 1                                | Result 2   | RPD      |           |   |
|  | L23-Oc0063492                             | CP              | mg/kg                | < 50                                    | < 50   | <1       | 30%       | Pass                                    |
|  |   |                 | - Grand              |   |  | 2 22 2   | 5.5.5.0   | 2577205055                              |
| TRH >C10-C16                                 |   | CP              | malka                | < 100                                   | < 100  | C 3      | 31147     | Mass                                    |
| TRH >C10-C16<br>TRH >C16-C34                 | L23-Oc0063492                             | CP              | mg/kg                | < 100                                   | < 100  | <1       | 30%       | Pass                                    |
| TRH >C10-C16<br>TRH >C16-C34<br>TRH >C34-C40 |   | CP<br>CP        | mg/kg<br>mg/kg       | < 100<br>< 100                          | < 100<br>< 100   | <1       | 30%       | Pass                                    |
| TRH >C10-C16<br>TRH >C16-C34                 | L23-Oc0063492                             | P28 22 TV       |                      | 31,22011                                | 200000000000000000000000000000000000000  | 1 2320 1 | .9 500000 | 100000000000000000000000000000000000000 |

| Duplicate                   |   |  |                    | 3                    |  | - 55   |         | _50                                     |  |
|-----------------------------|---|--|--------------------|----------------------|--|--|---------|---|--|
| Organochlorine Pesticides   |   |  |                    | Result 1             | Result 2   | RPD  |         |   |  |
| Chlordanes - Total          | L23-Oc0063497   | CP                                     | mg/kg              | < 0.1                | < 0.1  | <1   | 30%     | Pass                                    |  |
| 4.4'-DDD                    | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| 4.4'-DDE                    | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| 4.4'-DDT                    | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| a-HCH                       | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Aldrin                      | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| b-HCH                       | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| d-HCH                       | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Dieldrin                    | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan I                | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan II               | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan sulphate         | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin                      | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin aldehyde             | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin ketone               | L23-Oc0063497   | CP                                     |                    | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
|                             | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| g-HCH (Lindane)             |   | CP                                     | mg/kg              |                      | < 0.05   | <1   | 227.500 | 10000                                   |  |
| Heptachlor                  | L23-Oc0063497   |  | mg/kg              | < 0.05               | +  | 7  | 30%     | Pass                                    |  |
| Heptachlor epoxide          | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Hexachlorobenzene           | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Methoxychlor                | L23-Oc0063497   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Duplicate                   |   | 202000011                              |                    | No.                  |  |  |         | 1 4                                     |  |
| otal Recoverable Hydrocarbo | THE RESIDENCE OF THE PROPERTY | ************************************** | 15<br>286-190-1900 | Result 1             | Result 2   | RPD  | 500000  | 100000000000000000000000000000000000000 |  |
| TRH C10-C14                 | L23-Oc0063504   | CP                                     | mg/kg              | < 20                 | < 20   | <1   | 30%     | Pass                                    |  |
| TRH C15-C28                 | L23-Oc0063504   | CP                                     | mg/kg              | < 50                 | 50   | 7.1  | 30%     | Pass                                    |  |
| TRH C29-C36                 | L23-Oc0063504   | CP                                     | mg/kg              | 76                   | 81   | 7.1  | 30%     | Pass                                    |  |
| Duplicate                   |   |  |                    | The second           | i de la constanta de la consta | 2000000  |         | 14 - 5                                  |  |
| Organochlorine Pesticides   |   |  | T                  | Result 1             | Result 2   | RPD  | 2000    |   |  |
| Chlordanes - Total          | L23-Oc0063504   | CP                                     | mg/kg              | < 0.1                | < 0.1  | <1   | 30%     | Pass                                    |  |
| 4.4'-DDD                    | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| 4.4'-DDE                    | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| 4.4'-DDT                    | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| a-HCH                       | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Aldrin                      | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| b-HCH                       | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| d-HCH                       | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Dieldrin                    | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan I                | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan II               | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endosulfan sulphate         | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin                      | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin aldehyde             | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Endrin ketone               | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| g-HCH (Lindane)             | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Heptachlor                  | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Heptachlor epoxide          | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Hexachlorobenzene           | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Methoxychlor                | L23-Oc0063504   | CP                                     | mg/kg              | < 0.05               | < 0.05   | <1   | 30%     | Pass                                    |  |
| Ouplicate                   |   | J                                      | mgmg               | - 0100               | -0100  |  | 00.70   | 1 000                                   |  |
| otal Recoverable Hydrocarbo | ns - 2013 NEDM Erecti   | one                                    |                    | Result 1             | Result 2   | RPD  |         |   |  |
|                             |   | Course.                                | malter             | Committee Committee  | (1-1/3),-34/3),t   | - NO. 125-1-1  | 200/    | Desc                                    |  |
| TRH >C10-C16                | L23-Oc0063504   | CP                                     | mg/kg              | < 50                 | < 50   | <1   | 30%     | Pass                                    |  |
| TRH > C16-C34               | L23-Oc0063504   | CP                                     | mg/kg              | 100                  | 100  | <1   | 30%     | Pass                                    |  |
| TRH >C34-C40                | L23-Oc0063504   | CP                                     | mg/kg              | < 100                | < 100  | <1   | 30%     | Pass                                    |  |
| Duplicate                   |   |  |                    | Result 1             | Tacona I   | RPD  |         | Y S                                     |  |
| Sample Properties           |   |  |                    | A Common Marie Marie | Result 2   | THE STATE OF THE S |         |   |  |

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| Duplicate               |                            |     |         |          | -        |     |     | _8   |
|-------------------------|----------------------------|-----|---------|----------|----------|-----|-----|------|
| Total Recoverable Hydro | carbons - 1999 NEPM Fracti | ons |         | Result 1 | Result 2 | RPD |     |      |
| TRH C10-C14             | L23-Oc0063513              | CP  | mg/kg   | < 20     | < 20     | <1  | 30% | Pass |
| TRH C15-C28             | L23-Oc0063513              | CP  | mg/kg   | < 50     | < 50     | <1  | 30% | Pass |
| TRH C29-C36             | L23-Oc0063513              | CP  | mg/kg   | < 50     | < 50     | <1  | 30% | Pass |
| Duplicate               | W I                        |     | M STATE | 10       | M        |     |     |      |
| Total Recoverable Hydro | carbons - 2013 NEPM Fracti | ons |         | Result 1 | Result 2 | RPD |     |      |
| TRH >C10-C16            | L23-Oc0063513              | CP  | mg/kg   | < 50     | < 50     | <1  | 30% | Pass |
| TRH >C16-C34            | L23-Oc0063513              | CP  | mg/kg   | < 100    | < 100    | <1  | 30% | Pass |
| TRH >C34-C40            | L23-Oc0063513              | CP  | mg/kg   | < 100    | < 100    | <1  | 30% | Pass |

#### Comments

V2 - Cr VI added to TP27\_1.5-2.0

#### Sample Integrity

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

| Qualifier Co | des/Comments   |
|--------------|--|
| Code         | Description  |
| N01          | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).   |
| N02          | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04          | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.  |
| Q05          | The matrix spike concentration is less than five times the background concentration in the sample - therefore the spike recovery cannot be determined  |
| Q08          | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.  |
|              |  |

#### Authorised by:

| Analytical Services Manager      |
|----------------------------------|
| Senior Analyst-Metal             |
| Senior Analyst-Sample Properties |
| Senior Analyst-Organic           |
|                                  |

Paul Nottle Senior Analyst-Organic Paul Nottle Senior Analyst-Volatile Rhys Thomas Senior Analyst-Asbestos Sam Becker Senior Analyst-Inorganic

## Kim Rodgers **General Manager**

Final Report - this report replaces any previously issued Report

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

Measurement uncertainty of test data is available on request

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## Appendix 5 Aurora Environmental 2023, Limited Stockpile Assessment





Dilhorn House, 2 Bulwer Street

Perth WA 6000

T (08) 9227 2600

F (08) 9227 2699

27 September 2023

Morton Seed and Grain Pty Ltd 950 Rockingham Road Wattleup WA 6166

Attention:



Dear Jonnie,

## RE: 766 King Road, Oldbury: Limited Stockpile Assessment

This letter presents the findings from works undertaken by Aurora Environmental ('Aurora') for an assessment of stockpiled material at 766 King Road, Oldbury (the Site). The Site's location is presented in Figure 1. The assessment was limited to the stockpiled material within the area highlighted in Figure 2. The assessment did not include the larger higher stockpile located on the Site. Based on a limited inspection by Aurora in May 2023, the stockpiles contain inert material, mainly brick and concrete rubble. It's understood that Morton Seed and Grain wishes to retain this material and use it to create a compacted hardstand area on the Site.

#### 1 INTRODUCTION AND BACKGROUND

Morton Seed and Grain recently purchased the Site, aware of its environmental constraints, with a view to using the Site for plant and equipment laydown and storage (i.e., commercial/industrial purpose). During the Site's previous ownership period, uncontrolled construction and demolition (C&D) waste materials were imported to the Site by a former tenant. It is for this reason that the Site was classified under the *Contaminated Sites Act 2003* (the CS Act) as "Possibly contaminated – investigation required" by the Department of Water and Environmental Regulation (DWER). There was a previous development application made to the Shire of Serpentine-Jarrahdale (the Shire) to manage the C&D waste materials and remediate the Site, predominantly through off-Site disposal. The Shire approved the works subject to conditions. These included the development of a suitable Remediation Plan and Environmental Management Plans acceptable to the DWER and the Department of Health (DoH), and the DWER issuing a Works Approval and Category 13 and 62 licences under the *Environmental Protection Act 1986* (EP Act).

Prior to the Morton Seed and Grain purchasing the Site, Aurora was involved in discussions with the Shire and the DWER regarding possible alternative management of C&D waste materials, including through options for on-Site containment instead of the previously proposed off-Site disposal. The DWER and Shire indicated that a new development application process would be required and that similar conditions would likely apply, but that they believe they could support on-Site management, if suitable controls and regulatory approvals were in place.

### 1.1 Objective

The objective was to assess the potential for the low-stockpiled material to be contaminated and understand the suitability of the material to be crushed and used to create a hardstand area on the Site. The assessment is considered warranted as the low-lying stockpile material appears to be consistent with C&D waste, the material may contain asbestos or other potential sources of contamination.

## 1.2 Scope of Work

The following scope of work was undertaken.

- Aurora supervised the installation of 26 test pits excavated into the stockpiled materials (excavator and operator were provided by Morton Seed and Grain). The test pits extended to 0.5m beneath the natural surface at each location. A soil sample was from the fill encountered in the stockpiled material and collected from the base of all test pit locations, once native soils were encountered. It was initially assumed that the stockpiles primarily comprised C&D rubble and there was only minor amount of soil in the stockpile, based on the limited inspection previously undertaken. However, this was found to not be the case once the test pitting of the stockpile commenced. A total of 30 soil samples (including quality control samples) were analysed for heavy metals, Total Recoverable Hydrocarbons (TRH), benzene, toluene, ethyl benzene, xylenes, and naphthalene (BTEX-N); and Organochlorine Pesticides (OCPs). These analytes are contaminants of potential concern (COPC) for fill of unknown origin, as identified by the DWER (2021a).
- The contents of the test pits were logged and photographed. Any suspected Asbestos Containing Material (ACM) or evidence of other potential forms of contamination, such as drums, batteries, chemicals, stained or malodorous materials or copper chrome arsenate (CCA) treated timber were noted. Five samples of fibre cement material were analysed for the presence of asbestos.
- Preparation of this letter report, to document the assessment of analytical results to health and
  ecological assessment criteria for commercial/industrial land use and clear concluding
  statements on the presence of potential for contamination in the stockpile or underlying soils,
  and the suitability of the stockpiled material for use to construct hardstand at the Site.

#### 2 METHODOLOGY AND OBSERVATIONS

This section describes the activities undertaken and observations made, whilst undertaking the test pitting investigation into the low stockpiles. On 7 and 8 August 2023, an Aurora Environmental Scientist undertook the investigative works. The Environmental Scientist had received in-house training on asbestos material identification by a Licensed Asbestos Assessor (LAA) and previously conducted similar assessments. Prior to the commencement of the test pitting, an initial inspection of the Site was completed. During the Site Inspection, large portions of the surface were noted to be wet, with some areas covered by standing water.

A total of 26 test pits were excavated across the low stockpile area; all test pits were mechanically excavated using a 20t excavator. The locations of the test pits excavated are presented on Figure 3. The test pits depths extended from the top of the stockpiled material to 0.5m into the natural soils.

The logs from the test pit installation are presented in Appendix 1 and further photographs taken during the investigation are shown in Appendix 2.

The stockpiles predominantly consisted of a combination of sandy fill material and a variety of C&D waste. The fill material in the stockpiles was comprising a brown/grey sand, fine to medium grained, well graded, and dry. The natural soil encountered below the stockpiled materials was observed to be an orange/yellow/grey clay with moderate plasticity, making it visually distinct from the soil in the stockpiles.

A variety of waste materials were observed during the test pitting consisting of mostly inert C&D wastes (concrete, brick, wood, and tile) and other domestic waste, such as textiles and general refuse. Other wastes noted in the inspection included isolated fragments of potential ACM, Potential Asbestos Containing Materials (PACM), and fibreglass panels. No staining, odours or other indications of gross contamination (such as drums, batteries, or CCA treated timber), were noted in the test pits.

PACM was observed in 17 test pit locations. All PACM fragments observed during the investigation were fibre cement ACM fragments, with no bulk amounts of sheeting observed. It is noted that there were multiple different types of fibre cement PACM fragments encountered (i.e., painted vs non-painted, flat vs corrugated), indicating different sources of the PACM. Fragments of PACM were observed in the following test pits:

| • | TP2;  | • | TP12;  | • | TP18;     |
|---|-------|---|--------|---|-----------|
| • | TP2a; | • | TP14;  | • | TP19;     |
| • | TP3;  | • | TP15;  | • | TP21;     |
| • | TP6;  | • | TP16;  | • | TP23; and |
| • | TP7;  | • | TP16a; | • | TP24.     |
| • | TP8;  | • | TP17;  |   |           |

In addition to the PACM noted in the test pits, isolated fragments of PACM were noted to be present at ten locations on top of the low stockpiles during the walkover/while moving between test pit locations. These locations are shown on Figure 3. It was not possible to collect representative 10L soil samples for 7mm sieve sampling routinely from test pits, due to large C&D particles dominating the content of stockpiles in most test pits. All observed PACM fragments were collected, removed from the Site, and weighed.

Five representative bulk asbestos sample were collected from PACM encountered in the stockpiles during the investigation and submitted for laboratory analysis, to confirm the presence of asbestos.

Soil samples for laboratory analysis were collected from each soil profile encountered within each of the test pits. Samples were placed directly into laboratory supplied glass jars and stored in a cooled esky until transfer to the laboratory. Samples were transported with accompanying Chain of Custody (CoC) documentation to a National Association of Testing Authorities (NATA) accredited laboratory, for analysis. Initially only samples from the fill material encountered in the stockpiles were submitted for OCPs, TRH, BTEX-N, and heavy metals. A duplicate and triplicate pair were collected from a single location for quality control purposes. The remaining samples were placed on hold with laboratory, in the case further analysis was required. Following the receipt of the results, an additional three samples of the native soils were submitted for zinc analysis only. The additional samples were selected on

locations where slightly elevated zinc concentrations were detected in the fill materials. A single sample of the native soil was analysed for pH and cation exchange capacity (CEC), to develop Sitespecific ecological criteria for zinc.

#### 3 ASSESSMENT CRITERIA

The adopted assessment criteria were based on future commercial/industrial land use at the Site. On this basis, analytical results were compared to the following assessment criteria, as presented in Schedule B1 of National Environment Protection (Assessment of Site Contamination [ASC]) Measure (NEPM) Amendment Measure 2013 No. 1. (NEPC, 1999), DWER Assessment and Management of Contaminated Sites, Contaminated Sites Guidelines (2021a) and Guidelines for the Assessment, Remediation and Management of Asbestos – Contaminated Sites in Western Australia (DoH, 2021).

For the purposes of the low stockpile assessment, the following assessment criteria was applied:

- Ecological Investigation Levels (EIL)/Ecological Screening Levels (ESL) Commercial/Industrial land use.
- Health Investigation Levels (HIL)/Health Screening Levels (HSL) Commercial/Industrial land use.
- Asbestos in Soil Screening Level D Commercial/Industrial land use.

#### 4 ANALYTICAL RESULTS

Analytical results are presented in Table 1-3. Laboratory analytical certificates and CoC documentation are contained within Appendix 3.

## 4.1 Heavy Metals

Concentrations of heavy metals were generally below the laboratory Limit of Reporting (LOR) and/or the adopted assessment criteria. Tabulated metals results are included in Table 1 and summary of the results are included below.

- Concentrations of cadmium and mercury were below the LOR and the adopted assessment criteria at all sample locations.
- Concentrations of arsenic were above the LOR but below the adopted assessment criteria at all sample locations, with concentrations ranging from <4.0 mg/kg (multiple locations) to 46mg/kg (TP30-0-0.1).
- Concentrations of chromium were above the LOR but below the adopted assessment criteria at all sample locations, with concentrations ranging from 2.6mg/kg (TP1-0.3-0.45) to 40mg/kg (TP22-0-0.6).
- Concentrations of copper ranged from 3.3mg/kg (TP25-0-0.3) to 44mg/kg (TP30-0-0.1).
- Concentrations of lead ranged from 7.9mg/kg (TP25-0-0.3) to 670mg/kg (TP1-0.3-0.45).
- Concentrations of nickel were above the LOR but below the adopted assessment criteria at all sample locations, with concentrations ranging from <1.0mg/kg (TP3-0-0.5) to 14mg/kg (TP4-0-1.1).
- Concentrations of zinc were above the LOR but below the adopted assessment criteria at all sample locations, with concentrations ranging from 1.4mg/kg (TP17-1.2-1.7) to 340mg/kg

(TP17-0-0.7). A single sample contained a concentration of zinc exceeding the adopted assessment EIL (TP17-0-0.7). The sample of the native soils from beneath the fill material in TP17 contained a concentration of zinc of 1.4mg/kg.

#### 4.2 BTEX-N and TRH

Concentrations of TRH and BTEX-N were all below the LOR and the adopted assessment criteria at all sample locations. Tabulated BTEX-N and TRH results are included in Table 2.

#### **4.3** OCPs

All OCPs were found to below the laboratory LOR, with the exception of dieldrin, chlordane (gamma), and DDT; with the maximum detectable concentration being 1.3mg/kg of dieldrin and all others only marginally greater than the LOR. No adopted assessment criteria for OCPs were exceeded. Tabulated OCP results are included in Table 3.

#### 4.4 Bulk Asbestos Identification

Five representative samples of PACM, identified during the test pitting, were submitted to a laboratory for Bulk Asbestos Identification analysis. Four of the five fragments submitted for analysis were found to contain asbestos materials, confirming the presence of asbestos within the low-lying stockpiled material. The results from the laboratory analysis are presented in Appendix 3.

#### 5 DISCUSSION

The objectives of the sampling were to assess the status of the low stockpiles and whether the stockpiled material may contain asbestos or other potential sources of contamination. The soil sampling completed found the stockpiles contained low levels of heavy metals and pesticides, but below the commercial/industrial land use investigation levels. A single sample contained zinc concentrations in excess of the ecological assessment criteria (TP17-0-0.7). The sample of the natural soil beneath the sample exceeding the EIL was found to be only marginally greater than the LOR. The exceedance is not considered to be representative of an unacceptable ecological risk, due to the single minor exceedance within a large volume of material, which has not leached into the native soils beneath the stockpile. The concentrations detected in the stockpiled material do not restrict maintaining and managing the material on-Site.

ACM was identified sporadically in low volumes throughout the low C&D stockpiles. Whilst only encountered sporadically ACM, was observed to be widely spread throughout the entirety of the stockpile area. Over the course of two days, during the test pitting and inspection of the surface of the stockpiles, Aurora identified less than 1kg of fibre cement ACM fragments (which was removed from the Site). The stockpiled materials are spread relatively thinly over an area of approximately 20,000m², presenting an opportunity with the test pits to observe a large amount of the materials. The fibre cement fragments that were found were in good, bonded condition. There was no evidence of bulk asbestos wastes, such as stacks of fence sheeting or building cladding.

Using the volume of ACM identified during the test pitting, an estimate of the weight/weight% (w/w%) of ACM within the low-lying stockpiled was compared to relevant assessment criteria, in lieu of being able to collect representative 10L soil samples for sieving from the test pits. In accordance with the *Managing Asbestos at Construction and Demolition Waste Recycling Facilities* (DWER, 2021b), the published guidelines for asbestos in recycled C&D products is 10mg/kg (0.001% by weight). The commercial/industrial screening asbestos criterion presented in DoH (2021) for commercial/industrial

land use is w/w% of 500mg/kg (0.05% by weight). There is approximately 20,000 tonnes of material in the stockpiles assessed (10,000m³ x 2t/m³), or 20,000,000kg. The extrapolated acceptable amount of asbestos, equivalent to the 10mg/kg and 500mg/kg guidelines, would be 200kg and 1000kg respectively. Due to the limited nature of the stockpile assessment, it is not possible to definitively confirm the volume of ACM within the stockpile, however observations suggest that it is likely to be less than 200kg and 1000kg. The stockpiled materials are therefore considered not likely to have asbestos above the 10mg/kg or 500mg/kg criterion and are unlikely to pose a health risk under the commercial/industrial site setting. However, based on the presence of ACM, it is not considered crushing of the materials is appropriate.

It is understood that Morton Seed and Grain is considering various options on the Site's future configuration and the re-use of materials at the Site, on the basis of the findings from them being assessed. Options for the stockpiled materials includes spreading them to make a level surface, covering them with a 0.5m thick layer of certified imported clean fill, and compacting for development of hardstand; either in their current location or at another location on the Site (such as shown on Figure 4). This type of activity is considered suitable, as the materials will not be directly crushed and will be covered with a physical barrier, so airborne asbestos fibre generation from ACM is unlikely to occur over time.

The potential for airborne asbestos fibre generation during such earthworks is low, given the low asbestos content. The potential can be reduced further by managing the works by pre-moistening the materials before conducting earthworks, not conducting the works in dry, windy conditions; and efficient use of earthwork machinery to minimise movement of the materials.

Although the amount of asbestos in the assessed stockpiles is likely less than what would be considered 'contamination' on a commercial/industrial site, it is considered prudent to manage the contained material with a Site Management Plan, consistent with DWER and DoH guidelines. This would provide confidence that the uncertainty in the amount of asbestos is accounted for and that the material is safely managed. The larger and higher stockpile of C&D materials present on the Site, which is currently unassessed, may also contain asbestos and may also require management under such a management plan.

If the stockpiled C&D materials are re-located to another portion of the Site, the footprint, and underlying natural soils from where they were removed from, should be assessed to validate the removal of asbestos to provide confidence that there are no unacceptable risks from asbestos within the footprint; and it can be an area used without requiring specific management.

#### 6 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the investigation works undertaken, the following conclusions are made.

- The low-lying construction and demolitions stockpile contains low amounts of fragmented ACM, which are considered to less that the relevant DoH and DWER criteria for commercial/industrial land use and re-use of C&D waste materials. The amount of ACM is not considered to pose an unacceptable health risk to people working at the Site.
- Soil in the stockpiles also contain low levels of heavy metals and OCPs, which are not considered to pose an unacceptable risk to human health or the environment at the Site.

• The stockpile materials subject to this assessment are considered suitable to be retained on the Site and re-used to develop compacted hardstand for laydown areas where they are not crushed and are covered with a 0.5m layer of certified imported clean fill.

Despite the amount of ACM present in the stockpiled materials being low and there being a low and acceptable health risk associated with them, earthworks to re-locate and level the materials should be managed to further reduce the potential for airborne asbestos fibre generation. An appropriate Health and Safety Management Plan should be prepared by Morton Seed and Grain or relevant contractors, before conducting the works which, among other hazards, controls the potential for airborne asbestos fibre generation.

It is recommended that this letter report is provided to the Shire, as part of Morton Seed and Grain notifying the Shire of its intention to re-locate the assessed stockpiled materials, on the basis the levels of asbestos in the stockpiles are not considered to constitute 'contamination' or pose an unacceptable health risk.

For and on behalf of Aurora Environmental,



Project Environmental Scientist

Associate Environmental Scientist (Director)

#### FIGURES:

- 1. Site Location
- 2. Site Layout
- 3. Low Stockpile Test Pit Locations
- 4. Recommended Management Option

#### **TABLES:**

- 1. Analytical Results Heavy Metals
- 2. Analytical Results Hydrocarbons
- 3. Analytical Results Pesticides

#### **APPENDICES:**

- 1. Test Pit Logs
- 2. Photographic Log
- 3. Laboratory Reports

#### 7 REFERENCES

**Department of Health (DoH) (2021)** Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia.

**Department of Water and Environmental Regulation (2021a).** Assessment and Management of Contaminated Sites – Contaminated Sites Management Series.

**Department of Water and Environmental Regulation (2021b).** Managing Asbestos at Construction and Demolition Waste Recycling Facilities.

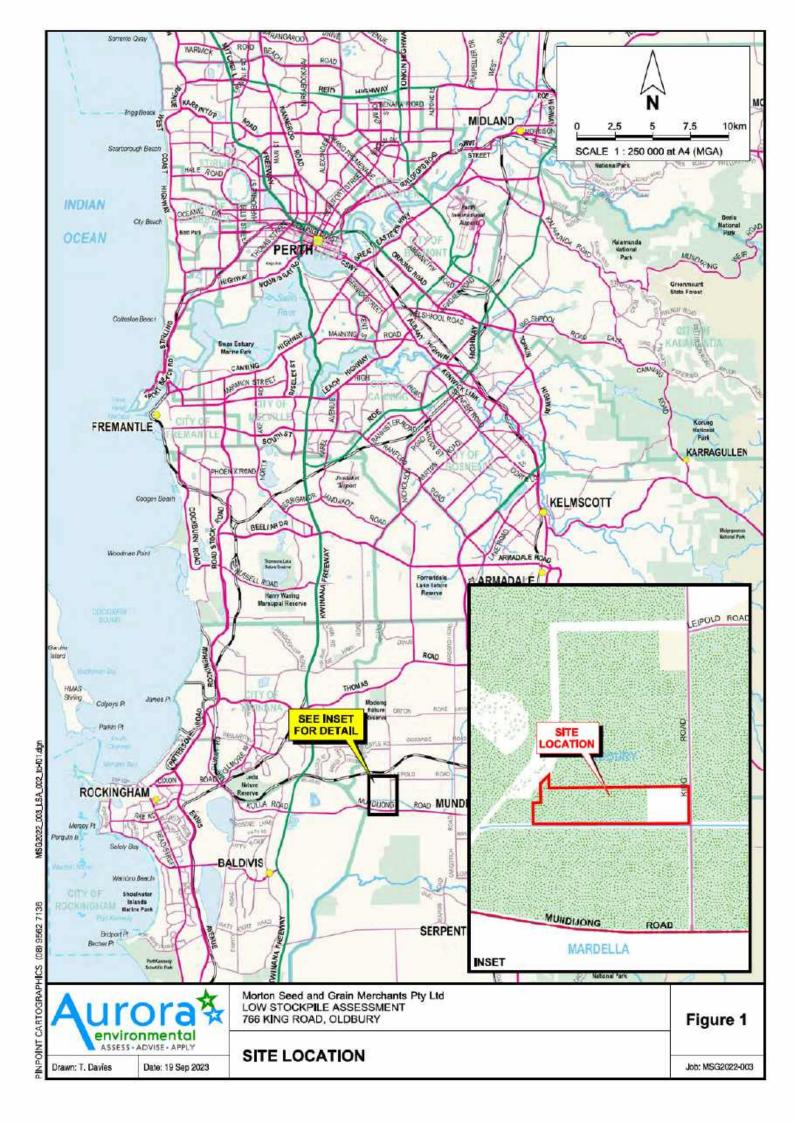
**National Environment Protection Committee (1999).** National Environmental Protection (Assessment of Site Contamination) Measure, as amended 2013.

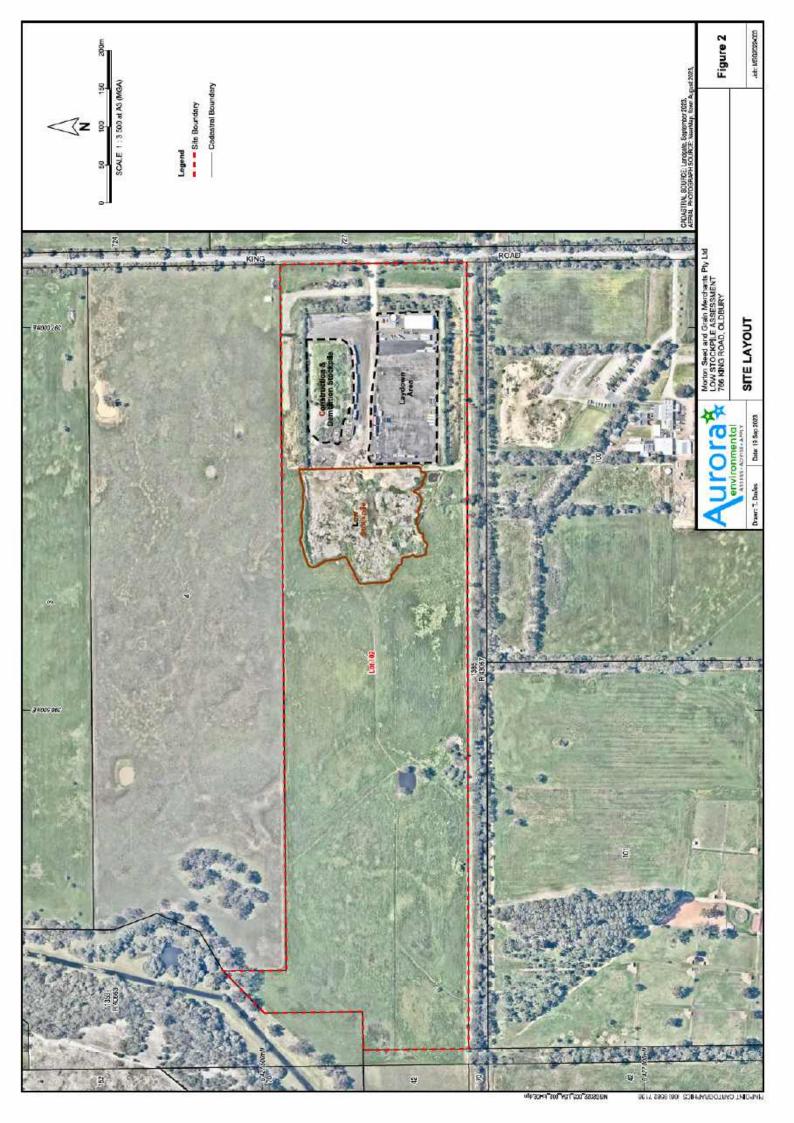
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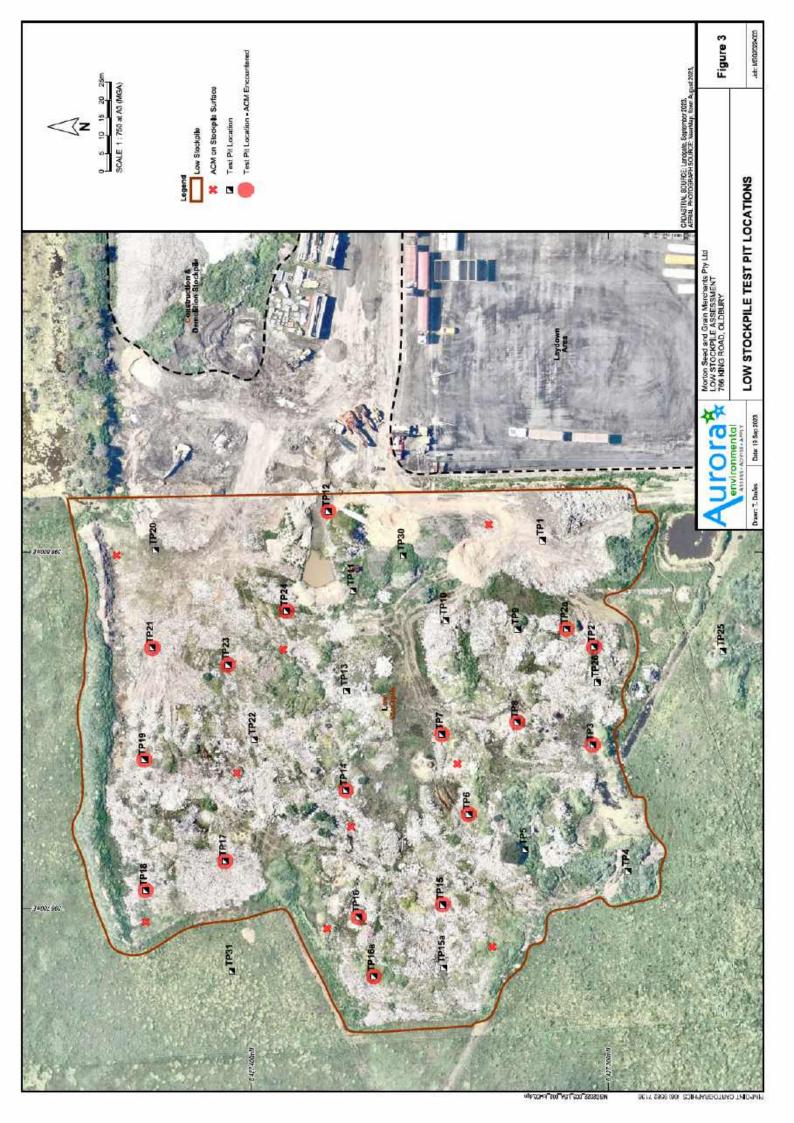
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# FIGURES









### **TABLES**

# Table 1 Analytical Results - Heavy Metal Results 766 King Road, Oldbury

|                                       |  | 1        |        |       | Me      | tals   |        |        |         |
|---------------------------------------|--|----------|--------|-------|---------|--------|--------|--------|---------|
|                                       |  |          |        |       | 1       |        |        |        |         |
|                                       |  |          |        |       |         |        |        |        |         |
|                                       |  |          |        |       |         |        |        |        |         |
|                                       |  |          |        |       |         |        |        |        |         |
|                                       |  |          |        |       |         |        |        |        |         |
|                                       |  | 0001     |        |       |         |        |        |        |         |
|                                       |  | mg/kg    | mg/kg  | mg/kg | mg/kg   | mg/kg  | mg/kg  | mg/kg  | mg/kg   |
| QL .                                  |  | 4        | 0.4    | 1     | 1       | 1      | 0.1    | 1      | 1       |
| EPM 2013 Table 1B(5) Generic EIL - Co | mm/Ind   | 160      | NE     | 310   | 85      | 1,800  | NE     | 55     | 210     |
| EPM 2013 Table 1A(1) HILs Comm/Ind    | D Soil   | 3,000    | 900    | NE    | 240,000 | 1,500  | 730    | 6,000  | 400,000 |
| Field ID                              | Date   |          |        |       |         |        |        |        |         |
| TP1-0-0.3                             | 07 Aug 2023  | 4.1      | < 0.40 | 9.6   | 11      | 20     | < 0.10 | 2.4    | 52      |
| TP1-0.3-0.45                          | 07 Aug 2023  | <4.0     | <0.40  | 2.6   | 13      | 670    | <0.10  | 2.3    | 93      |
| TP2-0-0.2                             | 07 Aug 2023  | <4.0     | <0.40  | 6     | 4.5     | 56     | <0.10  | 1.6    | 100     |
| TP3-0-0.5                             | 07 Aug 2023  | <4.0     | <0.40  | 3.4   | 8.1     | 48     | <0.10  | <1.0   | 72      |
| TP4-0-1.1                             | 07 Aug 2023  | <4.0     | <0.40  | 23    | 8.6     | 30     | <0.10  | 14     | 3.3     |
| TP5-0-0.1                             | 07 Aug 2023  | <4.0     | <0.40  | 9.2   | 7.8     | 17     | <0.10  | 5.2    | 9.4     |
| TP6-0-1.2                             | 07 Aug 2023  | <4.0     | <0.40  | 9.7   | 7.9     | 17     | <0.10  | 3.4    | 59      |
| TP7-0-1.0                             | 07 Aug 2023  | 6.2      | <0.40  | 16    | 6       | 10     | <0.10  | 1.7    | 30      |
| TP8-0.8-1.2                           | 07 Aug 2023  | <4.0     | <0.40  | 17    | 35      | 30     | <0.10  | 8      | 2.6     |
| TP9-0-1.0                             | 07 Aug 2023  | 6.2      | <0.40  | 25    | 18      | 46     | <0.10  | 2.2    | 82      |
| TP10-0-0.1                            |  | 4.7      | <0.40  | 13    | 9.3     | 20     | 550000 | 2.4    | 130     |
| TP10-0-4-0.5                          | 07 Aug 2023  | 5.224.00 |        |       |         |        | <0.10  | -      | -       |
|                                       | 07 Aug 2023  | 44.0     | -0.40  | •     |         | 45     |        | 2.0    | 110     |
| TP11-0-1.0                            | 07 Aug 2023  | <4.0     | <0.40  | 10    | 7.2     | 15     | <0.10  | 2.8    | 38      |
| TP12-0-3.0                            | 07 Aug 2023  | <4.0     | <0.40  | 9.3   | 5.4     | 13     | <0.10  | 1.2    | 63      |
| TP12-0-3.0                            | 08 Aug 2023  | <4.0     | <0.40  | 8.3   | 9.2     | 20     | <0.10  | 2.3    | 82      |
| TP13-0.0-0.8                          | 08 Aug 2023  | <4.0     | <0.40  | 19    | 16      | 29     | <0.10  | 7.5    | 59      |
| TP14-0-0.8                            | 07 Aug 2023  | <4.0     | <0.40  | 3.6   | 9       | 9.4    | <0.10  | 1      | 36      |
| TP16-0-0.8                            | 08 Aug 2023  | <4.0     | <0.40  | 14    | 7.8     | 9.9    | <0.10  | 1.3    | 42      |
| TP17-0-0.7                            | 08 Aug 2023  | <4.0     | <0.40  | 5.9   | 6.1     | 110    | <0.10  | 2      | 340     |
| TP17-0.7-1.2                          | 08 Aug 2023  |          | -      | E-    |         |        |        | 1000   | 1.4     |
| TP18-0.0-1.2                          | 08 Aug 2023  | <4.0     | <0.40  | 7.5   | 5.1     | 78     | <0.10  | 2.4    | 120     |
| TP18-1.2-1.7                          | 08 Aug 2023  | .7. 1    | -      | -     |         | -      |        | -      | 1.8     |
| TP19-0-1.2                            | 08 Aug 2023  | <4.0     | <0.40  | 9.8   | 6.5     | 22     | <0.10  | 3.3    | 47      |
| TP20-0-2.5                            | 08 Aug 2023  | <4.0     | <0.40  | 8.4   | 7.5     | 19     | <0.10  | 1.6    | 84      |
| TP21-0.1-1.1                          | 08 Aug 2023  | <4.0     | <0.40  | 19    | 10      | 33     | <0.10  | 13     | 3.3     |
| TP22-0-0.6                            | 08 Aug 2023  | <4.0     | <0.40  | 40    | 15      | 88     | <0.10  | 3.9    | 84      |
| TP23-0.0-0.4                          | 08 Aug 2023  | <4.0     | <0.40  | 15    | 9       | 34     | <0.10  | 7.5    | 25      |
| TP24-0-1.4                            | 08 Aug 2023  | <4.0     | <0.40  | 9.1   | 11      | 16     | <0.10  | 2.8    | 55      |
| TP25-0-0.3                            | 08 Aug 2023  | <4.0     | <0.40  | 9.5   | 3.3     | 7.9    | <0.10  | 2.7    | 8       |
| TP30-0-0.1                            | 08 Aug 2023  | 46       | <0.40  | 52    | 44      | 12     | <0.10  | 3      | 43      |
| QC1 (Duplicate of TP7-0-1.0)          | 07 Aug 2023  | 5.5      | < 0.40 | 17    | 5.8     | 8.4    | <0.10  | 1.3    | 32      |
| RPD                                   | To the second se | 11.97%   | NC     | 6.06% | 3.39%   | 17.39% | NC     | 26.67% | 6.45%   |
| QC2 (Triplicate of TP7-0-1.0)         | 07 Aug 2023  | 5.4      | <0.1   | 15    | 3.9     | 7.1    | 0.08   | 1      | 23      |
| RPD                                   | W = ==   | 13.79%   | NC     | 6.45% | 42.42%  | 33.92% | NC     | 51.85% | 26.42%  |

#### References:

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 2013).

#### Notes and Abbreviations:

LOR - limit of Reporting

mg/kg - milligram per kilogram

EIL - Ecological Investigation Level

NE - Not Established

HIL - Health Investigation Level

ID - Identification

NA - Not Applicable

NC - Not Calculatable

Table 2 Analytical Results - Hydrocarbons 766 King Road, Oldbury

|   |       |                |       | BTEXN |       |       | - 10  |       |       |              | TRH       |       |        |          | Halogenated<br>Benzenes |
|---|-------|----------------|-------|-------|-------|-------|-------|-------|-------|--------------|-----------|-------|--------|----------|-------------------------|
|   |       |                |       |       |       |       |       |       |       |              |           |       |        |          |                         |
| nois.   | mg/kg | mg/kg          | By/Su | mg/kg        | mg/kg     | mg/kg | mg/kg  | mg/kg    | mg/kg                   |
| NEPM 2013 Table 1A(3) Comm/Ind D Soil HSI, for Vapour Intrusion, Sand |       | 0.5            | CO    | 4     | 7     | -     | 2     | Q     | Q     | 8            | 8         | 007   | OOT    | 20       | 100                     |
| >=0m, <1m   | NE    | 3              | NE    | NE    | NE    | NE    | 230   | NE    | 260   | NE           | NE        | NE    | a Z    | NE       | NE                      |
| NEPM 2013 Table 18(5) Generic Ell Comm/Ind                            | 370   | NE             | NE    | ¥     | NE    | NE    | NE    | NE NE | Z     | NE           | ¥         | NE    | NE     | N.       | NE                      |
| NEPM 2013 Table 18(6) ESLs for Cornm/Ind, Coarse Soll - >=0m, <2m     | NE    | 75             | 135   | 165   | NE    | 뿔     | 180   | NE    | 215   | 170          | 170       | 1,700 | 3,300  | N.       | NE                      |
| A(1) Hills Comm/ind D Soil  | NE    | NE             | NE NE | 3     | NE NE | NE NE | JE NE | NE    | E E   | NE           | <b>X</b>  | NE.   | NE     | NE       | 8                       |
| TEN A CO  | 7     | 00.00          | 99.00 | 24.0  | 0.00  | 0 +5  | 000   | 707   | 300   | 037          | 425       | 2100  | 24,000 | 025      | 01.0*                   |
|   | 015   | 8 20           | 050>  | 410   | 000   | 410   | 30    | 9 50  | 65    | 989          | 050       | 4100  | <100   | 9        | 01.05                   |
|   | 979   | 40.20          | <0.50 | 410   | 42.0  | <1.0  | 30    | 425   | 425   | \$           | 05>       | 4100  | <100   | \$ 050   | 40.10                   |
|   | 410   | <0.20          | <0.50 | 41.0  | <2.0  | <1.0  | 3.0   | <25   | 425   | 05>          | <50       | 4100  | <100   | \$ \$0   | 40.10                   |
|   | <1.0  | <0.20          | <0.50 | <1.0  | <2.0  | <1.0  | 43.0  | <25   | <25   | <50          | <50       | <100  | <100   | 450      | 40.10                   |
| TP5-0-0.1 07 Aug 2023   | 410   | <0.20          | <0.50 | <1.0  | <2.0  | <1.0  | 9.0   | <25   | <25   | <50          | <50       | 4100  | <100   | <50      | <0.10                   |
| TP6-0-1.2 07 Aug 2023   | 470   | <0.20          | <0.50 | <1.0  | 42.0  | <1.0  | 3.0   | <25   | <25   | <50          | <50       | 400   | <100   | <50      | <0.10                   |
|   | <1.0  | <0.20          | <0.50 | <1.0  | <2.0  | <1.0  | 43.0  | 425   | <25   | <\$0         | \$        | <100  | <100   | \$       | <0.10                   |
|   | <1.0  | <0.20          | <0.50 | <0.0> | 42.0  | <1.0  | 43.0  | 425   | <25   | <50          | <50       | <100  | <100   | <50      | <0.10                   |
| 5073  | <1.0  | 40.20          | <0.50 | <1.0  | <2.0  | <1.0  | €3.0  | \$25  | 425   | <\$0         | \$0       | <100  | ¢100   | \$20     | <0.10                   |
|   | 07    | 40.20          | <0.50 | 47.0  | 20    | <1.0  | 3.0   | \$3   | 425   | \$0          | <50       | 4100  | <100   | Ş        | 40.10                   |
|   | 97    | <0.20          | <0.50 | 41.0  | 2.0   | <1.0  | 3.0   | 425   | <25   | \$00         | \$        | 000   | ×100   | \$00     | Ø.10                    |
|   | 0.15  | <0.20          | <0.50 | 41.0  | 500   | <1.0  | 0.0   | \$25  | 425   | \$ \$0       | ŝ         | Ø₽    | ¢100   | 8        | 40.10                   |
| TP12-0-3.0 08 Aug 2023  | 0 7   | 0.20           | 40.50 | 0.0   | 200   | 410   | 0.00  | 50 5  | 25    | 8 8          | 8 8       | 788   | 4100   | 8 8      | 0.10                    |
|   | 07    | <0.20          | <0.50 | 410   | 42.0  | <1.0  | 30    | <25   | 55    | 8            | <50       | 001   | <100   | \$ 000   | 40.10                   |
|   | <1.0  | -0.20<br>-0.20 | <0.50 | <1.0  | <2.0  | <1.0  | 3.0   | <25   | 425   | -\$0<br>-\$0 | <50       | 400   | <100   | · 20     | <0.10                   |
|   | <1.0  | <0.20          | <0.50 | <1.0  | 42.0  | <1.0  | 3.0   | <25   | <25   | -S0          | °50       | 4100  | <100   | ·\$0     | <0.10                   |
| TP18-0.0-1.2 08 Aug 2023  | <10   | <0.20          | <0.50 | 41.0  | <2.0  | <1.0  | 3.0   | <25   | <25   | 99           | °50       | 00₽   | <100   | 950      | <0.10                   |
| TP19-0-1.2 08 Aug 2023  | <1.0  | <0.20          | <0.50 | <1.0  | <2.0  | <1.0  | <3.0  | <25   | 425   | ₹20          | <50       | 00₽   | <100   | <50      | Ø.10                    |
| - 0   | <1.0  | <0.20          | <0.50 | 4.0   | 0.0   | <1.0  | €3.0  | <25   | 92    | \$0          | <50       | 400   | <100   | SS<br>SS | 01.0                    |
|   | <1.0  | <0.20          | <0.50 | 410   | 0.0   | c1.0  | <3.0  | <25   | 425   | <b>S</b> 0   | <50       | 4100  | <100   | <50      | 0.10                    |
|   | ¢ţ.   | c0.20          | <0.50 | 470   | 42.0  | <1.0  | 3.0   | <25   | <25   | \$5          | <50       | 400   | <100   | <50      | 0.0                     |
|   | <1.0  | <0.20          | <0.50 | <1.0  | <2.0  | <1.0  | €3.0  | <25   | <25   | <50          | °50       | <100  | <100   | °20      | <0.10                   |
| 314   | ×1.0  | <0.20          | <0.50 | 0.10  | <2.0  | <1.0  | 3.0   | <25   | 425   | <50          | °50       | 700   | ×100   | \$       | 01.0>                   |
|   | <1.0  | <0.20          | <0.50 | 4.0   | <2.0  | <1.0  | 3.0   | <25   | <25   | - SS         | <50<br>20 | 400   | <100   | \$20     | <0.10                   |
|   | <1.0  | <0.20          | <0.50 | d.0   | <2.0  | <1.0  | 9.0   | <25   | 425   | <50          | <50       | 400   | <100   | <50      | O.10                    |
| QC1 (Duplicate of TP7-0-1.0) 07 Aug 2023                              | <0.10 | 0.20           | <0.50 | <1.0  | <2.0  | c1.0  | 3.0   | <25   | <25   | <50          | °50       | <100  | c100   | ·50      | 01.0                    |
| RPD   | NC    | NC             | NC    | NC    | NC    | NC    | NC    | NC    | NC    | NC           | NC        | NC    | NC     | NC       | NC                      |
| QC2 (Triplicate of TP7-0-1.0) 07 Aug 2023                             | <0.5  | 40.1           | <0.1  | <0.1  | <0.2  | <0.1  | 40.3  | <20   | <20   | ≪0           | <50       | <50   | <50    | <50      | NA                      |
| RPD   | NC    | NA.            | NC    | NC    | NA    | NA    | Y.    | N     | SO    | Š            | S         | NC    | Ų.     | O.       | NA                      |

1. Schedule B1 - Guideline on investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 2013).

Notes and Abbreviations:
LOR - limit of Reporting
mg/kg - milligram per kilogram
EL - Ecological Investigation Level
ESL - Ecological Screening Level

HSL - Health Screening Level
BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene
TRH - Total Recoverable Hydrocarbons
NC - Not Calculatable

NE - Not Established HIL - Health Investigation Level

Table 3 Analytical Results - Pesticides 766 King Road, Oldbury

|  |                    |       |       |       |       |        |        |       |       |       | Organoch       | Organochlorine Pesticides | rides |             |       |       |         |       |         |         |       |       |
|--|--------------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|----------------|---------------------------|-------|-------------|-------|-------|---------|-------|---------|---------|-------|-------|
|  |                    |       |       |       |       |        |        |       |       |       |                |                           |       |             |       |       |         |       |         |         |       |       |
|  |                    | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg  | mg/kg  | mg/kg | mg/kg | mg/kg | mg/kg          | mg/kg                     | mg/kg | mg/kg       | mg/kg | mg/kg | mg/kg   | mg/kg | mg/kg n | mg/kg 1 | mg/kg | mg/kg |
| EQL  |                    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1    | 0.1    | 0.1   | 0.1   |       | -              | -                         | 0.1   | -           | -     |       | -       | Ť     | -       | -       | -     | 0.1   |
| NEPM 2013 Table 18(5) Generic ELL - Comm/Ind | pul/muo            | ¥     | NE NE | NE    | NK.   | ME     | 뿐      | NE.   | 뿐     | NE    | 640            | NE                        | NE    | NE          | NE NE | NE NE | NE      | NE    | NE NE   | NE      | NE NE | WE    |
| NEPM 2013 Table 1A(1) HILS Comm/ind D Soil   | d D Soil           | J.    | NE    |       | 45    | NE     | 530    | 01    | NE    | NE    | NE             | 2000                      |       | NE          | 100   | NE    | NE      | NE.   | 20      | NE      | 2,500 | 100   |
| Field ID                                     | Date               |       |       |       |       |        |        |       |       |       |                |                           | G.    |             |       |       |         |       |         | 0       |       | (1)   |
| TP1-0-0.3                                    | 07 Aug 2023        | €0.10 | <0.10 | <0.10 | 0.3   | 01.0>  | CC.C>  | <0.10 | <0.10 | <0.10 | 00.10          | <0.10                     | <0.10 | <0.10       | 40.10 | <0.10 | <0.10   | O.10  | 255     |         | c0.10 | Ø.10  |
| TP1-0.3-0.45                                 | 07 Aug 2023        | 0.10  | Q0'10 | <0.10 | <0.10 | Ø,30   | <0.10  | <0.10 | Ø30   | 00.10 | <0.10<br><0.10 | Q.10                      | €0.10 | €0.30       | Ø.30  | <0.10 | 0.10    | 0.30  |         | +       | 0.10  | Ø.10  |
| TP2-0-0.2                                    | 07 Aug 2023        | Ø.10  | Ø.30  | 40.10 | <0.10 | Ø.30   | Ø.10   | 40.10 | 40.30 | Ф.10  | 40.10          | <0.10                     | Ø.10  | 40.10       | Q.30  | 40.10 | 40.10   | Ø.10  | 1       | +       | +     | Ø.10  |
| TP3-0-0.5                                    | 07 Aug 2023        | Ø.10  | 40.10 | <0.10 | 0.2   | Ø.30   | Ø.10   | <0.10 | Ø.30  | 40.10 | 0.25           | <0.10                     | 40.10 | 40.10       | 40.30 | <0.10 | 40.10   | Ø.10  | 200     | +       |       | Ø.10  |
| TP4-0-1.1                                    | 07 Aug 2023        | Ф.10  | 0,10  | <0.10 | <0.10 | Ø.10   | 40,10  | <0.10 | Q.10  | 40.10 | 40.10          | <0.10                     | 40.10 | 40.10       | Ø.10  | <0.10 | 40.10   | 40.10 |         | +       | +     | 40.10 |
| TPS-0-0.1                                    | 07 Aug 2023        | 0.10  | <0.10 | <0.10 | <0.10 | 0.10   | 40.10  | <0.10 | 40.10 | <0.10 | <0.10          | <0.10                     | <0.10 | 0770        | <0.10 | <0.10 | <0.10   | <0.10 |         | +       | <0.10 | Ø.10  |
| TP6-0-1.2                                    | 07 Aug 2023        | 0.10  | 0.10  | <0.10 | 0.39  | 07.70  | 0.10   | <0.10 | 0.10  | 0.10  | 07.00          | <0.10                     | <0.10 | 00.10       | Ø.10  | <0,10 | <0.10   | 0.10  |         |         | 0.10  | 0.10  |
| TP7-0-1.0                                    | 07 Aug 2023        | Ø.10  | <0.10 | <0.10 | <0.10 | Q0.30  | Ø.10   | <0.10 | <0.10 | Ø.10  | <0.10          | <0.10                     | €0.10 | <0.10       | d0.10 | <0.10 | Q.10    | Q.10  |         | 1       | Ø.10  | 0.10  |
| TP8-0.8-1.2                                  | 07 Aug 2023        | 0.10  | 40.10 | 40.10 | €0.10 | Q.30   | Ø.10   | 40.10 | 010   | 0.10  | 40.10          | 0110                      | 010   | 40.10       | Ø.10  | 0.10  | 010     | Ø 10  | Ø.10    | 010     | 010   | 010   |
| TP9-0-1.0                                    | 07 Aug 2023        | Ø.10  | 40,10 | <0.10 | <0.10 | Ø.30   | 40.10  | <0.10 | 0.30  | Ф.30  | 40.30          | <0.10                     | 40.10 | 40.30       | €0.30 | <0.10 | 40.10   | Ø.30  |         | 1       | 0.10  | 0.10  |
| TP10-0-0.1                                   | 07 Aug 2023        | 40.10 | 0,10  | 40.10 | 0.31  | Ø.10   | Q.10   | 40.10 | 0.10  | 0.10  | Ø.10           | Ø.10                      | 40.10 | 40.10       | Ø.10  | Ф.10  | 0.10    | 40.10 |         | +       | 0.10  | ð.10  |
| TP11-0-1.0                                   | 07 Aug 2023        | 0.10  | 0.10  | Ø.10  | 0.14  | 0.10   | 40.10  | <0.10 | 40.10 | <0.10 | Q.10           | 40.10                     | <0.10 | 0.10        | Q.10  | 01.0  | 0.10    | 40.10 |         | +       | 0.10  | 0.10  |
| TP12-0-3.0                                   | 07 Aug 2023        | 0.10  | 40.10 | <0.10 | 0.24  | Q 10   | Ø.10   | <0.10 | 40.10 | 0.10  | 0.10           | <0.10                     | 40.10 | 40.10       | 0,10  | 40.10 | 40.10   | <0.10 |         | 0.10    | 40.10 | 0.10  |
| TP12-0-3.0                                   | 08 Aug 2023        | Ф.10  | 0.10  | 0.10  | 1 O   | 07.00  | Ø.10   | 0.10  | 0.10  | 0.10  | Q110           | 01.0                      | 40.10 | <0.10       | Q 10  | 010   | 01.0    | c0 10 |         | +       | 0.10  | 01.0  |
| TP13-0.0-0.8                                 | 08 Aug 2023        | 0.10  | c0.10 | c0.10 | 13    | Q.10   | 0.10   | <0.10 | 0.10  | c0.10 | 0.10           | c0.10                     | <0.10 | <b>©</b> 10 | 60.10 | c0.10 | 0.10    | 00.10 |         |         | 01.00 | Ø.10  |
| TP14-0-0.8                                   | 07 Aug 2023        | 07.00 | Ø.10  | 010   | O.10  | 0.10   | <0.10  | Q.10  | Ø.30  | 40.10 | Q,10           | Ø.10                      | 0.10  | Ø.10        | Ø.10  | Ø.10  | Ø.10    | 0.10  |         | 0.10    | 0.10  | 8.10  |
| TP16-0-0.8                                   | 08 Aug 2023        | 89.10 | 970   | 970   | 0.45  | Ø 10   | 6.10   | 0.13  | Ø.30  | 02.30 | 40.10          | 0.10                      | 9 10  | 9,10        | 8 10  | 40.10 | 0.10    | 80.10 |         | +       | 010   | 97.10 |
| TP17-0-0.7                                   | 08 Aug 2023        | 0.10  | 9.10  | 40.10 | 0.10  | 9,30   | 40.10  | 0.12  | 0.10  | 070   | 80.30          | Ø 10                      | 40.30 | 40.10       | ₩ 970 | Ø.10  | Ø.10    | 40.10 | +       | +       | 0.10  | 80.30 |
| TP18-0.0-1.2                                 | 08 Aug 2023        | 0.10  | 9,10  | <0.10 | 0.22  | 0.10   | 9770   | 40.10 | 0.10  | 40.10 | 0.10           | Q.10                      | 40.10 | 40.10       | Q.10  | 9.10  | Q.10    | 40.30 | +       | +       | 970   | 90.10 |
| TP19-0-1.2                                   | 08 Aug 2023        | 0.10  | 40.10 | Q.10  | 0.23  | 0.10   | Q.10   | <0.10 | 0.10  | <0.10 | <0.10<br>0.10  | Q.10                      | <0.10 | 0770        | 9,10  | 9.10  | 8,10    | 0.10  | +       | +       | 0.10  | 07.10 |
| TP20-0-2.5                                   | 08 Aug 2023        | 9.10  | 070   | <0.10 | 0.28  | 07.10  | 970    | <0.10 | 9.10  | 0.10  | 9.10           | 07.0                      | 9.30  | 0.10        | 8 19  | 970   | 07.0    | 00.10 | +       | 0.10    | 07.00 | 9 30  |
| TP21-0.1-1.1                                 | 08 Aug 2023        | 9.30  | 40.10 | <0.10 | <0.10 | 90.30  | 6.10   | <0.10 | 0.10  | <0.10 | 40,10          | Q 10                      | Q 10  | 40.10       | 40.10 | 40.10 | 9710    | 40.30 | 1       | +       | 0.10  | 0.10  |
| TP22-0-0.6                                   | 08 Aug 2023        | 9 10  | 8 10  | 010   | 0.29  | 8.10   | 010    | 0.10  | Ø 10  | 010   | 9.10           | 8 10                      | 8 10  | 8 10        | 8 10  | 910   | 8 10    | 8.10  | +       | +       | Ø 10  | 8 10  |
| TPZ3-0.0-0.4                                 | 08 Aug 2023        | 9.30  | 40,10 | 40,10 | <0.10 | 40.30  | \$30   | <0.10 | 40.10 | 40,30 | 40,10          | Q170                      | 40.10 | 40,30       | 40,10 | 0.30  | 40,10   | 40.70 | 1       | +       | Ø.10  | 0.10  |
| TP24-0-1.4                                   | <b>08 Aug 2023</b> | 0.10  | Q110  | Ø10   | 0.15  | \$0.10 | 9770   | 40.10 | Ø.30  | 40,10 | 80.10          | Ø.10                      | 40.30 | 9,10        | 8 30  | Ø.10  | 0.10    | 40.10 | +       | +       | 0.10  | 9.10  |
| TP25-0-0.3                                   | 08 Aug 2023        | 0.10  | ₩,10  | 01,0  | <0.10 | 40,10  | Q.10   | Q.10  | 0.10  | 40.10 | Ø.10           | 9,10                      | 0.30  | 0.10        | Q.10  | 9.6   | Ø.10    | <0.10 |         | 1       | 0.10  | 0.10  |
| TP30-0-0.1                                   | 08 Aug 2023        | 0.10  | 40.10 | 40,10 | <0.10 | 0,10   | <0.10  | <0.10 | 0.10  | <0.10 | 40,10          | 40.10                     | <0.10 | 0,10        | Q.10  | 40.10 | 0.10    | <0.10 |         | +       | 0.10  | 40,10 |
| QCI (Duplicate of TP7-0-1.0)                 | 07 Aug 2023        | 40.10 | 40.10 | <0.10 | <0.10 | 40.30  | \$0.10 | <0.10 | 40.10 | 40.10 | 40.10          | <0.10                     | 40.10 | 40.10       | 40.10 | 40.10 | <0.10   | 40.10 |         | 0       | 01.0  | 40.10 |
| RPO  |                    | S     | NC    | SC    | S     | 2      | N      | ž     | ž     | SC    | NC             | ž                         | ž     | S           | S     | ž     | ž       | NC.   | +       | +       | N     | S     |
| QC2 (Triplicate of TP7-0-1.0)                | 07 Aug 2023        | <0.05 | NA    | <0.05 | <0.05 | NA     | NA     | AM    | <0.05 | <0.05 | <0.05          | <0.05                     | <0.05 | <0.05       | <0.05 | <0.05 | NA      | NA    |         |         | <0.05 | NA    |
| RPD  |                    | NC    | NA    | SC    | SC    | NA     | NA     | NA    | Š     | NC    | NC             | NC<br>NC                  | NC    | NC          | NC    | SC    | NA<br>A | MA    | NC      | NC      | NC    | Ā     |

References:

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 2013).

Notes and Abbreviations: NA - Not Analysed Hil. - Health Investigation Level

ID - Identification NE - Not Established RPD - Relative Percentage Difference

LOR - limit of Reporting

mg/kg - miligram per kilogram Ell - Ecological Investigation Level NC - Not Calculatable

## **ATTACHMENT 1**

Test Pit Logs



Client: Morton Seed and Grain

Project: Low Stockpile Assessment

Date Commenced: 7/08/23

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 0.5m below ground level.

| vvatel 3ti       | ike ii Aliy      |   |               |                | Total Dept   | il of flore. O.Sili below ground level.  |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 4.0-0.0          | FILL             | Construction and Demolition waste with no soils. Waste consisted of large concrete blocks and bricks.   | Y             | N              | -            | No staining, odours or ACM observed.   |
| 0.0-0.3          | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | 0-0.3        | No staining, odours or ACM observed.   |
| 0.3-0.45         | FILL             | Gravelly SAND: grey/brown, fine to coarse grained, well graded, moist.  | Υ             | N              | 0.3-0.45     | Crushed glass fragments observed throughout soil horizon. Inferred road base material. |
| 0.45-0.5         | CL               | CLAY: Grey/orange, moderate plasticity, soft, moist.  | N             | N              | 0.45-0.5     | Inferred natural soils. No staining, odours or ACM observed.                           |

Terminated at 0.5m below ground level (4.5m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Project: Low Stockpile Assessment

Date Commenced: 7/08/23

Date Completed: 7/08/23

Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 0.5m below ground level

| Water ou         | 110 11 7 111 9 1 |   |               |                   | Total Bepti  | TOT TIOIC. O.SIII BCIOW BIOGIIG ICVCI   |
|------------------|------------------|---|---------------|-------------------|--------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N)    | Sample<br>ID | Comments  |
| 1.0-0.2          | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | Y – SP<br>surface | 0-0.3        | Construction and demolition wastes including timber, bricks plastic and ACM observed in stockpile. No staining or odours observed. Stockpile 1m in height at TP location. |
| 0.2-0.5          | CL               | CLAY: Orange, moderate plasticity, soft, moist.   | N             | N                 | 0.45-0.5     | Inferred natural soils. No staining, odours or ACM observed.  |

Terminated at 0.5m below ground level (1.5m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Project: Low Stockpile Assessment

Date Commenced: 7/08/23

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.8m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-1.3            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | -            | Construction and demolition wastes including timber, bricks plastic. No ACM, staining or odours observed. Stockpile 1.3m in height at test pit location. |
| 1.3-1.8          | CL               | CLAY: Orange, moderate plasticity, soft, moist.   | N             | N              | -            | Inferred natural soils. No staining, odours or ACM observed. Water encountered at 1.3mbtos.  |

Terminated at 1.8m below top of stockpile with target depth reached.





Soil Bore No: TP2bClient: Morton Seed and GrainDate Commenced: 7/08/23Project: Low Stockpile AssessmentDate Completed: 7/08/23Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N)                      | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|-------------------------------------|--------------|---|
| 0-0.7            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | Y (5+<br>frags in<br>10L<br>sample) | -            | Construction and demolition wastes including timber, bricks plastic. No staining or odours observed. Several large fragments of corrugated ACM encountered. Stockpile was 0.7m in height. |
| 0.7-1            | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N                                   | -            | Inferred natural soils. No staining, odours or ACM observed.  |

Terminated at (1m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1m below top of

|                  |                  |   |               |   | Stockpile    | (IIIDLOS)   |
|------------------|------------------|---|---------------|---|--------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N)                            | Sample<br>ID | Comments  |
| 0-0.5            | FILL             | SAND: Brown-dark brown, fine to medium grained, poorly graded, moist.   | Y             | Y (Frags<br>observed<br>in !OL<br>sample) | 0.0-0.5      | Construction and demolition wastes including timber, bricks, metal, and plastic. No staining or odours observed. Multiple ACM fragments from two different sources were observed. Stockpile was 0.5m in height. |
| 0.5-1.0          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N   | 0.5-1.0      | Inferred natural soils. No staining, odours or ACM observed.  |







Soil Bore No: TP4Client: Morton Seed and GrainDate Commenced: 7/08/23Project: Low Stockpile AssessmentDate Completed: 7/08/23Location: 766 King Rd, OldburyLogged By: TDel

Project Number: MSG2022-003 Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1m below top of

|                  |                  |   |               |                |              | (*****   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-1.1            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | N             | N              | 0.0-0.5      | No staining, odours or ACM observed. Stockpile was 1.1m in height. |
| 1.1-1.6          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N              | 0.5-1.0      | Inferred natural soils. No staining, odours or ACM observed.       |







Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

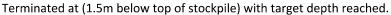
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 1.1mbtos Total Depth of Hole: 1m below top of

|                  |                  |   |               |                | Stockpile    | (111503)   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-1.1            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | 0.0-0.1      | Construction and demolition wastes including timber, bricks plastic. General household waste also encountered. No ACM, staining or odours observed. Stockpile 1.1m in height at test pit location. |
| 1.1-1.5          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | 0.1-0.5      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.1 mbtos.  |







Soil Bore No: TP6Client: Morton Seed and GrainDate Commenced: 7/08/23Project: Low Stockpile AssessmentDate Completed: 7/08/23Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TDExcavation Co: Red Sand SuppliesExcavation Method: Test PittingOperator:Weather: SunnyWater Strike if Any:1.2mbtosTotal Depth of Hole: 1.2m below top of

|                  |                  |   |               |                | Stockpile    | (1110103)   |
|------------------|------------------|---|---------------|----------------|--------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
| 0-1.2            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | Y              | 0.0-1.2      | Construction and demolition wastes including timber, bricks and concrete. No staining or odours observed. Three fragments of ACM were observed. Stockpile was 1.2m in height. |
| 1.2-1.5          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | 1.2-1.5      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.2 mbtos.   |







Client: Morton Seed and Grain Date Commenced: 7/08/23
Project: Low Stockpile Assessment Date Completed: 7/08/23

Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.5m below top of

|                  |                  |   |               |                | Stockpile                      | 1   |
|------------------|------------------|---|---------------|----------------|--------------------------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID                   | Comments  |
| 0-1.0            | FILL             | SAND: Dark brown, fine to medium grained, poorly graded, moist.   | Y             | Y              | 0.0-1.0<br>(QC1<br>and<br>QC2) | Construction and demolition wastes including PVS, bricks and plastic. No staining or odours observed. One fragment of PACM were observed. Stockpile was 1.0m in height. |
| 1.0-1.5          | CL               | CLAY: Orange/red, moderate plasticity, soft, moist.   | N             | N              | 1.0-1.5                        | Inferred natural soils. No staining, odours or ACM observed.  |







Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 0.8mbtos Total Depth of Hole: 1.2m below top of

|                  |                  |   |               | pile (mates)   |              |  |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-0.8            | FILL             | No soil, construction and demolitions waste only  | Y             | Y              | -            | Construction and demolition wastes including timber, bricks and concrete. No staining or odours observed. 2 fragments of PACM were observed. Stockpile was 0.8m in height. |
| 0.8-1.2          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | 1.2-1.5      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 0.8 mbtos.  |







Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

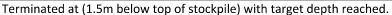
Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 1.0 mbtos

Total Depth of Hole: 1.2m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-1.0            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | 0.0-1.0      | A small volume of construction and demolition wastes including timber, PVC, scrap metal, bricks and concrete. No staining or odours observed. Stockpile was 1.2m in height. No ACM observed within test pit but 2x frags observed on the stockpile surface adjacent to the test pit. |
| 1.0-1.5          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | 1.0-1.5      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.0 mbtos.  |







Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.2m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID                                 | Comments   |
|------------------|------------------|---|---------------|----------------|--|--|
| 0-1.5            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | 0.0-0.1                                      | Construction and demolition wastes including timber, PVC, scrap metal, bricks and concrete. No staining or odours observed. Stockpile was 1.5m in height. No ACM observed within test pit but 2x frags observed on the stockpile surface adjacent to the test pit. |
| 1.0-1.5          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N              | 0.1-0.5<br>(error in<br>sample<br>labelling) | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.0 mbtos.  |





Soil Bore No: TP11

Water Strike if Any: -



Client: Morton Seed and Grain

Project: Low Stockpile Assessment

Date Commenced: 7/08/23

Date Completed: 7/08/23

Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Total Depth of Hole: 1.5m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0.0-1.0          | FILL             | SAND: Brown, fine to medium grained, poorly graded, dry.  | Y             | N              | 0-1.0        | Construction and demolition wastes including timber, bricks plastic and scrap metal observed in stockpile. No ACM, staining or odours observed. Stockpile 1m in height at TP location. |
| 1.0-1.5          | CL               | CLAY: Grey/orange, moderate plasticity, soft, moist.  | N             | N              | 1.0-1.5      | Inferred natural soils. No staining, odours or ACM observed.   |

Terminated at 0.5m below ground level (4.5m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Project: Low Stockpile Assessment

Date Commenced: 7/08/23

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 3.5m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|--|---------------|----------------|--------------|---|
| 0.0-3.0          | FILL             | Additional Observations)  SAND: Brown, fine to medium grained, poorly graded, dry with some pockets of yellow sand.  | Y             | Y –            | 0-0.3        | Construction and demolition wastes including convert and bricks observed in stockpile. 1 PACM fragment (fibre cement was identified). 1 fragment of ACM noted. No staining or odours observed. Stockpile 3m in height at TP location. |
| 3.0-3.5          | CL               | CLAY: Orange, moderate plasticity, soft, moist.  | N             | N              | 0.45-0.5     | Inferred natural soils. No staining, odours or ACM observed.  |

Terminated at 0.5m below ground level (3.5m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.3m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-0.8            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | N              | 0-0.8        | Construction and demolition wastes including timber, bricks and roof tiles. No ACM, staining or odours observed. Stockpile 0.8m in height at test pit location. |
| 0.8-1.3          | CL               | CLAY: Orange, moderate plasticity, soft, moist.   | N             | N              | 0.8-1.3      | Inferred natural soils. No staining, odours or ACM observed. Water encountered at 1.3mbtos.   |

Terminated at 1.3m below top of stockpile with target depth reached.





Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

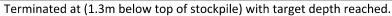
Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.3m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-0.8            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Υ             | Y              | 0-0.8        | Construction and demolition wastes including concrete, timber, bricks and roof tiles. 1 fragment of PACM (fibre cement) noted. No, staining or odours observed. Stockpile 0.8m in height at test pit location. |
| 0.8-1.3          | CL               | CLAY: Brown. moderate plasticity, soft, moist.  | N             | N              | 0.8-1.3      | Inferred natural soils. No staining, odours or ACM observed.   |







Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

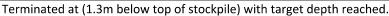
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 0.8mbtos Total Depth of Hole: 1m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-0.8            | FILL             | Construction and Demolition waste with no soils. Waste consisted of large concrete blocks and bricks.   | Υ             | Y              | -            | No staining or odours observed. 1 fragment of PACM observed. Stockpile 0.8m in height at test pit location. |
| 0.8-1.3          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | 0.8-1.3      | Inferred natural soils. No staining, odours or ACM observed.  |







Client: Morton Seed and Grain Date Commenced: 8/08/23
Project: Low Stockpile Assessment Date Completed: 8/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 1.0mbtos Total Depth of Hole: 1m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-1.0            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Y             | Υ              | -            | Construction and demolition wastes including concrete, timber, bricks and roof tiles. No ACM, staining or odours observed. Stockpile 0.8m in height at test pit location. |
| 1.0-1.5          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N              | -            | Inferred natural soils. No staining, odours or ACM observed. Water encountered at 1.5mbtos.   |

Terminated at (1.5m below top of stockpile) with target depth reached.



Soil Bore No: TP16

Water Strike if Any: -



Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

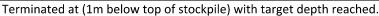
Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Total Depth of Hole: 1.3m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|--|---------------|----------------|--------------|---|
| 0-0.8            | FILL             | Additional Observations)  SAND: Brown, fine to medium grained, poorly graded, moist.   | N             | N              | 0.0-0.5      | Construction and demolition wastes including concrete, bricks and roof tiles. No ACM, staining or odours observed. Stockpile 0.8m in height at test pit location. |
| 0.8-1.3          | CL               | CLAY: Brown, moderate plasticity, soft, moist.   | N             | N              | 0.5-1.0      | Inferred natural soils. No staining, odours or ACM observed.  |







Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-1.1            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist.  | Υ             | Y 2 frags      | -            | Construction and demolition wastes including timber, bricks plastic. General household waste also encountered. 2 fragments of PACM were encountered. No staining or odours observed. Stockpile 1.1m in height at test pit location. |
| 1.1-1.5          | CL               | CLAY: Brown, moderate plasticity, soft, moist.  | N             | N              | -            | Inferred natural soils. No staining, odours or ACM observed.  |







Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.2m below top of

stockpile (mbtos)

|                  |                  |   |               |                | stockpile    | (1110103)   |
|------------------|------------------|---|---------------|----------------|--------------|---|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
| 0-0.7            | FILL             | Silty SAND: Brown/cream, fine to medium grained, poorly graded, moist with some limestone cobbles throughout.   | Y             | N              | 0.0-0.7      | Construction and demolition wastes including timber, bricks and concrete. No staining or odours observed. Stockpile was 1.2m in height. |
| 0.7-1.2          | CL               | CLAY: cream/grey, moderate plasticity, soft, wet.   | N             | N              | 0.7-1.2      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.2 mbtos.   |

Terminated at (1.2m below top of stockpile) with target depth reached.



Soil Bore No: TP18



Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny Water Strike if Any: - Total Depth of H

Total Depth of Hole: 1.5m below top of

stockpile (mbtos)

|                  |                  |   |               |                | этоскрпе     | (IIIDCO3)  |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-1.2            | FILL             | Silty SAND: Brown/cream, fine to medium grained, poorly graded, moist with some limestone cobbles throughout.   | Y             | Y – 1 frag     | 0.0-1.2      | Construction and demolition wastes including timber, bricks and concrete. 1x PACM fragment observed (fibre cement) No staining or odours observed. Stockpile was 1.2m in height. |
| 1.2-1.7          | CL               | CLAY: Orange, moderate plasticity, soft, moist.   | N             | N              | 1.2-1.7      | Inferred natural soils. No staining, odours or ACM observed.   |

Terminated at (1.7m below top of stockpile) with target depth reached.



Soil Bore No: TP19



Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: 1.2m btos

Total Depth of Hole: 1.2m below top of

|                  |                  |   |               | stockpile (mbtos) |              |  |  |
|------------------|------------------|---|---------------|-------------------|--------------|--|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N)    | Sample<br>ID | Comments   |  |
| 0-1.2            | FILL             | Silty SAND: Brown/cream, fine to medium grained, poorly graded, moist with some limestone cobbles throughout.   | Y             | Y – 1 frag        | 0.0-1.2      | Construction and demolition wastes including timber, bricks and concrete. 1x PACM fragment observed (fibre cement) No staining or odours observed. Stockpile was 1.2m in height. |  |
| 1.2-1.7          | CL               | CLAY: Orange/grey, moderate plasticity, soft, wet.  | N             | N                 | 1.2-1.5      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 1.2 mbtos.  |  |







Client: Morton Seed and Grain

Date Commenced: 7/08/23

Project: Low Stockpile Assessment

Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

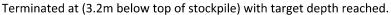
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.2m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-3.0            | FILL             | SAND: Brown, fine to medium grained, poorly graded, moist with pockets of yellow sand   | Υ             | N              | 0.0-2.5      | A small volume of construction and demolition wastes including timber, PVC, scrap metal, bricks and concrete were present from 2.5-3m btos. No staining or odours observed. Stockpile was 3m in height. No ACM observed within test pit. |
| 3.0-3.2          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N              | 3.0-3.2      | Inferred natural soils. No staining, odours or ACM observed.   |







Client: Morton Seed and Grain Date Commenced: 7/08/23
Project: Low Stockpile Assessment Date Completed: 7/08/23

Location: 766 King Rd, Oldbury
Project Number: MSG2022-003
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.2m below top of

|                  |                  |   |               | stockpile (mbtos) |              |   |  |
|------------------|------------------|---|---------------|-------------------|--------------|---|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N)    | Sample<br>ID | Comments  |  |
| 0-0.6            | FILL             | Construction and Demolition waste with no soils. Waste consisted of large concrete blocks and bricks.   | Υ             | Y                 | -            | No staining or odours observed.  1 fragment of PACM observed.  Stockpile 0.8m in height at test pit location. |  |
| 0.6-1.1          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N                 | 0.6-1.1      | Inferred natural soils. No staining, odours or ACM observed. Groundwater encountered 0.6 mbtos.               |  |

Terminated at (1.5m below top of stockpile) with target depth reached.





Client: Morton Seed and Grain

Date Commenced: 8/08/23

Project: Low Stockpile Assessment

Date Completed: 8/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

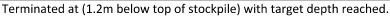
Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.1m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor                          | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments  |
|------------------|------------------|---|---------------|----------------|--------------|---|
| 0-0.6            | FILL             | Components, Moisture, Origin, Additional Observations)  Silty SAND: Brown/cream, fine to medium grained, poorly graded, moist with some limestone cobbles throughout. | Υ             | N              | 0.0-0.6      | Construction and demolition wastes including timber, bricks and concrete. No staining or odours observed. Stockpile was 1.2m in height.1x PACM fragments observed 2m north east of test pit on stockpile surface. |
| 0.6-1.1          | CL               | CLAY: orange, moderate plasticity, soft, moist.   | N             | N              | 0.6-1.1      | Inferred natural soils. No staining, odours or ACM observed.  |

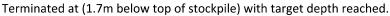






Soil Bore No: TP23Client: Morton Seed and GrainDate Commenced: 8/08/23Project: Low Stockpile AssessmentDate Completed: 8/08/23Location: 766 King Rd, OldburyLogged By: TDelProject Number: MSG2022-003Checked By: TDExcavation Co: Red Sand SuppliesExcavation Method: Test PittingOperator:Weather: SunnyWater Strike if Any: -Total Depth of Hole: 1.5m below top of

|                  |                  |   |               |                | stockpile    | (mbtos)  |
|------------------|------------------|---|---------------|----------------|--------------|--|
| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
| 0-0.4            | FILL             | SAND: Brown, fine to coarse grained, well graded, moist/  | Υ             | Y – 2<br>frags | 0.0-0.4      | Minimal soils, mostly construction<br>and demolition wastes including<br>timber, bricks and concrete. 2x<br>PACM fragment observed (fibre<br>cement) No staining or odours<br>observed. Stockpile was 0.4m in<br>height. |
| 0.4-0.9          | CL               | CLAY: Orange, moderate plasticity, soft, moist.   | N             | N              | 0.4-0.9      | Inferred natural soils. No staining, odours or ACM observed.   |



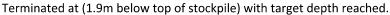




stockpile (mbtos)

Soil Bore No: TP24 Client: Morton Seed and Grain Date Commenced: 8/08/23 Project: Low Stockpile Assessment Date Completed: 8/08/23 Location: 766 King Rd, Oldbury Logged By: TDel Project Number: MSG2022-003 Checked By: TD Excavation Co: Red Sand Supplies **Excavation Method: Test Pitting** Operator: Weather: Sunny Water Strike if Any: Total Depth of Hole: 1.9m below top of

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-1.4            | FILL             | Silty SAND: Brown, fine to medium grained, poorly graded, moist with some limestone cobbles throughout.   | Y             | Y – 1 frag     | 0.0-1.2      | Construction and demolition wastes including timber, bricks and concrete. 1x PACM fragment observed (fibre cement) No staining or odours observed. Stockpile was 1.4m in height. |
| 1.4-1.9          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N              | 1.4-1.9      | Inferred natural soils. No staining, odours or ACM observed.   |







Soil Bore No: TP25

Client: Morton Seed and Grain Date Commenced: 7/08/23
Project: Low Stockpile Assessment Date Completed: 7/08/23

Location: 766 King Rd, Oldbury

Project Number: MSG2022-003

Logged By: TDel
Checked By: TD

Excavation Co: Red Sand Supplies Excavation Method: Test Pitting

Operator: Weather: Sunny

Water Strike if Any: - Total Depth of Hole: 1.2m below top of

stockpile (mbtos)

| Depth<br>(mbtos) | Symbol<br>(USCS) | LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) | C&D?<br>(Y/N) | PACM?<br>(Y/N) | Sample<br>ID | Comments   |
|------------------|------------------|---|---------------|----------------|--------------|--|
| 0-0.3            | FILL             | SAND: Yellow, fine to medium grained, poorly graded, dry  | Y             | N              | 0.0-0.3      | A small volume of construction and demolition wastes including timber, PVC, scrap metal, bricks and concrete were present from 2.5-3m btos. No staining or odours observed. Stockpile was 3m in height. No ACM observed within test pit. |
| 0.3-0.8          | CL               | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N             | N              | 0.3-0.8      | Inferred natural soils. No staining, odours or ACM observed.   |







Soil Bore No: TP30 Date Commenced: 8/08/23 Client: Morton Seed and Grain Project: Low Stockpile Assessment Date Completed: 8/08/23 Location: 766 King Rd, Oldbury Logged By: TDel Project Number: MSG2022-003 Checked By: TD Excavation Co: Red Sand Supplies **Excavation Method: Test Pitting** Operator: Weather: Sunny Water Strike if Any: -Total Depth of Hole: 0.1m below top of stockpile (mbtos) Depth Symbol LITHOLOGICAL DESCRIPTIONS C&D? PACM? Sample Comments (Soil Name, Colour, Plasticity, Particle (mbtos) (USCS) (Y/N) (Y/N) ID Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations) 0-0.1 FILL Mulch Ν No ACM, staining or odours Ν Terminated at (0.1m below top of stockpile) with target depth reached.

| Soil Bore   | No: TP31      |   |          |                    |              |   |  |  |
|-------------|---------------|---|----------|--------------------|--------------|---|--|--|
| Client: Mo  | orton Seed a  | and Grain   |          |                    | Date Comr    | nenced: 8/08/23   |  |  |
| Project: Lo | ow Stockpil   | e Assessment  |          |                    | Date Comp    | oleted: 8/08/23   |  |  |
| Location:   | 766 King Ro   | l, Oldbury  |          |                    | Logged By:   | : TDel  |  |  |
| Project No  | umber: MS0    | 52022-003   |          |                    | Checked B    | y: TD   |  |  |
| Excavatio   | n Co: Red Sa  | and Supplies  |          |                    | Excavation   | Method: Test Pitting                                    |  |  |
| Operator:   |               |   |          |                    | Weather: 9   | Sunny   |  |  |
| Water Str   | ike if Any: - |   |          |                    | Total Dept   | h of Hole: 0.3m below top of                            |  |  |
|             |               |   |          |                    | stockpile (  | mbtos)  |  |  |
| Depth       | Symbol        | LITHOLOGICAL DESCRIPTIONS   | C&D?     | PACM?              | Sample       | Comments  |  |  |
| (mbtos)     | (USCS)        | (Soil Name, Colour, Plasticity, Particle<br>Characteristics, Moisture, Secondary Soil<br>Components, % Proportion, Minor<br>Components, Moisture, Origin,<br>Additional Observations) | (Y/N)    | (Y/N)              | ID           |   |  |  |
| 0-0.3       | CL            | CLAY: Orange/grey, moderate plasticity, soft, moist.  | N        | N                  | -            | No ACM, staining or odours observed. Background sample. |  |  |
|             | I             | Terminated at (0.1m below top   | of stock | u<br>pile) with ta | rget depth r | eached.   |  |  |

#### Disclaimer (Retain at end of logs):

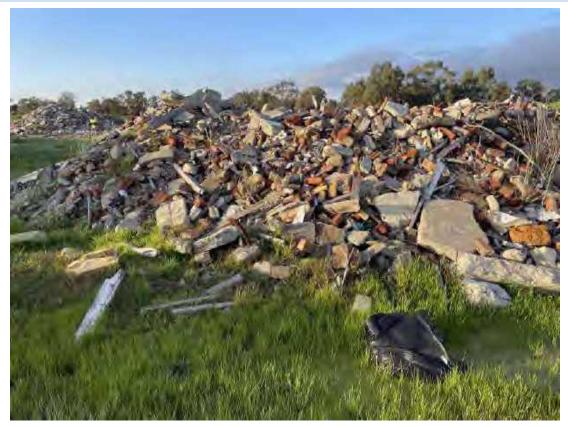
Aurora Environmental has described soils with reference to AS1726:2017, consistent with requirements of the National Environmental Protection (Assessment of Site Contamination) Measure. Aurora Environmental does not provide geotechnical assessment or engineering advice and the soil descriptions should not be relied upon for these purposes in any form.

# **ATTACHMENT 2**

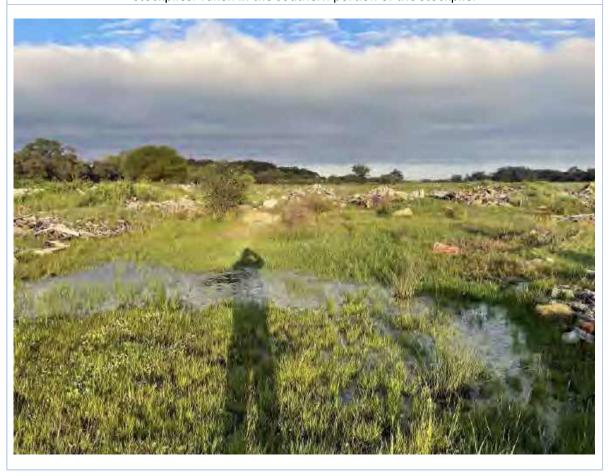
Photographic Log



**Photograph 1:** A representative image of the low-lying construction and demolition waste stockpiles. Taken in the southern portion of the stockpile.



**Photograph 2:** A representative image of the low-lying construction and demolition waste stockpiles. Taken in the southern portion of the stockpile.





**Photograph 3:** A representative image of the low-lying construction and demolition waste stockpiles. Taken in the northern portion of the stockpile.



**Photograph 4:** A representative image of the low-lying construction and demolition waste stockpiles. Taken in the northern portion of the stockpile.



# **ATTACHMENT 3**

**Laboratory Reports** 

| CHAIN OF CUSTODY Dilhorn House, 2 Bulwer St, Perth WA 500 | 31, Perth WA 600                                  | F. (08) 9227 2699              |  |                            | Gen,                | rormental A   | Sheet 1 of 1 | 13                  |                             |           |         |
|---|---|--------------------------------|--|----------------------------|---------------------|---|--------------|---------------------|-----------------------------|-----------|---------|
| hob ID: MSG-2023-003<br>Email results to:                 |   | info@auroraenvionmental.com.au | com, au  |                            | Results Required    | Results Required Date: STAT<br>Lab / Lab Quote No.:   |              |                     |                             |           |         |
| Umdelarake@@w<br>connnents:                               | tim de la raise @ @ suspraktruronmental Lom .a.u. | Um devies@eurcraenvir          | tim davies@euroaenvironmental.com.ខu, brackdermody@la  | 型auroraemuncumental com au | Purchase Order No.: | Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Masa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Ma<br>Ma<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Ma<br>Ma<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>Massa<br>M |              | Chisalon            | Notes/LON/ Special Requests |           | 1       |
| Ol along Sample ID  | Aurera Sample ID                                  | 105<br>ads                     | 7.8.7  | Sontier Contribution       | X                   | × × × × × × × × × × × × × × × × × × ×   |              | Send to ARI         |                             | And y sis | *       |
| Heliequi<br>Sample  |   |                                |  | 7.8.73                     | Received by GW MPL  | W. WPL  |              | Date: 7/8/23 (17.90 | 083)                        | <u> </u>  | 1014773 |
| AURDR<br>Aufheri<br>Revision                              |   | Pel                            | t occurrent from the particular p |                            |                     |   |              |                     | 13:30 658                   | io        |         |



Aurora Environmental (Perth) P/L Dilhorn House 2 Bulwer St Perth WA 6000 Haid MRA



NATA Accredited Accreditation Number 2377 Site Number 2370

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

Attention:

Report 1014773-S

Project name

Received Date Aug 08, 2023

| Client Sample ID                             |          |       | QC2          |
|--|----------|-------|--------------|
| Sample Matrix                                |          |       | Soil         |
|  |          |       | L23-         |
| Eurofins Sample No.                          |          |       | Au0019541    |
| Date Sampled                                 |          |       | Aug 07, 2023 |
| Test/Reference                               | LOR      | Unit  |              |
| Total Recoverable Hydrocarbons - 1999 NEPM F | ractions |       |              |
| TRH C6-C9                                    | 20       | mg/kg | < 20         |
| TRH C10-C14                                  | 20       | mg/kg | < 20         |
| TRH C15-C28                                  | 50       | mg/kg | < 50         |
| TRH C29-C36                                  | 50       | mg/kg | < 50         |
| TRH C10-C36 (Total)                          | 50       | mg/kg | < 50         |
| BTEX   |          |       |              |
| Benzene                                      | 0.1      | mg/kg | < 0.1        |
| Toluene                                      | 0.1      | mg/kg | < 0.1        |
| Ethylbenzene                                 | 0.1      | mg/kg | < 0.1        |
| m&p-Xylenes                                  | 0.2      | mg/kg | < 0.2        |
| o-Xylene                                     | 0.1      | mg/kg | < 0.1        |
| Xylenes - Total*                             | 0.3      | mg/kg | < 0.3        |
| BTEX   |          |       |              |
| 4-Bromofluorobenzene (surr.)                 | 1        | %     | 98           |
| Total Recoverable Hydrocarbons - 2013 NEPM F | ractions |       |              |
| Naphthalene <sup>N02</sup>                   | 0.5      | mg/kg | < 0.5        |
| TRH >C10-C16 less Naphthalene (F2)N01        | 50       | mg/kg | < 50         |
| TRH C6-C10                                   | 20       | mg/kg | < 20         |
| TRH C6-C10 less BTEX (F1)N04                 | 20       | mg/kg | < 20         |
| Organochlorine Pesticides                    |          |       |              |
| Chlordanes - Total                           | 0.1      | mg/kg | < 0.1        |
| 4.4'-DDD                                     | 0.05     | mg/kg | < 0.05       |
| 4.4'-DDE                                     | 0.05     | mg/kg | < 0.05       |
| 4.4'-DDT                                     | 0.05     | mg/kg | < 0.05       |
| a-HCH  | 0.05     | mg/kg | < 0.05       |
| Aldrin                                       | 0.05     | mg/kg | < 0.05       |
| b-HCH  | 0.05     | mg/kg | < 0.05       |
| d-HCH  | 0.05     | mg/kg | < 0.05       |
| Dieldrin                                     | 0.05     | mg/kg | < 0.05       |
| Endosulfan I                                 | 0.05     | mg/kg | < 0.05       |
| Endosulfan II                                | 0.05     | mg/kg | < 0.05       |
| Endosulfan sulphate                          | 0.05     | mg/kg | < 0.05       |
| Endrin                                       | 0.05     | mg/kg | < 0.05       |
| Endrin aldehyde                              | 0.05     | mg/kg | < 0.05       |
| Endrin ketone                                | 0.05     | mg/kg | < 0.05       |



| Client Sample ID                             |          |       | QC2               |
|--|----------|-------|-------------------|
| Sample Matrix                                |          |       | Soil              |
| Eurofins Sample No.                          |          |       | L23-<br>Au0019541 |
| Date Sampled                                 |          |       | Aug 07, 2023      |
| Test/Reference                               | LOR      | Unit  |                   |
| Organochlorine Pesticides                    |          |       |                   |
| g-HCH (Lindane)                              | 0.05     | mg/kg | < 0.05            |
| Heptachlor                                   | 0.05     | mg/kg | < 0.05            |
| Heptachlor epoxide                           | 0.05     | mg/kg | < 0.05            |
| Hexachlorobenzene                            | 0.05     | mg/kg | < 0.05            |
| Methoxychlor                                 | 0.05     | mg/kg | < 0.05            |
| Toxaphene                                    | 0.5      | mg/kg | < 0.5             |
| Aldrin and Dieldrin (Total)*                 | 0.05     | mg/kg | < 0.05            |
| DDT + DDE + DDD (Total)*                     | 0.05     | mg/kg | < 0.05            |
| Vic EPA IWRG 621 OCP (Total)*                | 0.1      | mg/kg | < 0.1             |
| Vic EPA IWRG 621 Other OCP (Total)*          | 0.1      | mg/kg | < 0.1             |
| Dibutylchlorendate (surr.)                   | 1        | %     | 76                |
| Tetrachloro-m-xylene (surr.)                 | 1        | %     | 92                |
| Total Recoverable Hydrocarbons - 2013 NEPM F | ractions |       |                   |
| TRH >C10-C16                                 | 50       | mg/kg | < 50              |
| TRH >C16-C34                                 | 100      | mg/kg | < 100             |
| TRH >C34-C40                                 | 100      | mg/kg | < 100             |
| TRH >C10-C40 (total)*                        | 100      | mg/kg | < 100             |
|  |          |       |                   |
| Arsenic                                      | 5        | mg/kg | 5.4               |
| Cadmium                                      | 0.1      | mg/kg | < 0.1             |
| Chromium                                     | 1        | mg/kg | 15                |
| Copper                                       | 1        | mg/kg | 3.9               |
| Lead   | 1        | mg/kg | 7.1               |
| Mercury                                      | 0.02     | mg/kg | 0.08              |
| Nickel                                       | 1        | mg/kg | 1.0               |
| Zinc   | 1        | mg/kg | 23                |
| Sample Properties                            |          |       |                   |
| % Moisture                                   | 1        | %     | 3.9               |



#### Sample History

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

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

| Description   | Testing Site | Extracted    | <b>Holding Time</b> |
|---|--------------|--------------|---------------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions                                | Welshpool    | Aug 14, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C6-C40   |              |              |                     |
| BTEX  | Welshpool    | Aug 14, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C8-C40   |              |              |                     |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                                | Welshpool    | Aug 14, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C8-C40   |              |              |                     |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                                | Welshpool    | Aug 14, 2023 | 14 Days             |
| - Method: LTM-ORG-2010 TRH C8-C40   |              |              |                     |
| Organochlorine Pesticides   | Welshpool    | Aug 14, 2023 | 14 Days             |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                                  |              | MW6 10 E     | 6                   |
| Arsenic   | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| Cadmium   | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| Chromium  | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| Copper  | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| Lead  | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| Mercury   | Welshpool    | Aug 14, 2023 | 28 Days             |
| - Method: ARI, No. 406 - Mercury by Cold Vapour Atomic Absorption Spectrophotometry |              |              |                     |
| Nickel  | Welshpool    | Aug 14, 2023 | 180 Days            |
| Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS                       |              |              |                     |
| Zinc  | Welshpool    | Aug 14, 2023 | 180 Days            |
| - Method: ARL401/403 - Metajs in Soil and Sediment by ICPOES/MS                     |              |              |                     |
| % Moisture  | Welshpool    | Aug 08, 2023 | 14 Days             |
| - Method: ARL135 Moisture in Solids   |              |              |                     |

# Eurofins ARL Pty Ltd Seconories

Eurofins Environment Testing Australia Pty Ltd

Perth 46-48 Banksis Road Welshpool WA 6106 Tel-461 61253 4444 NATA# 2377 Site# 2370

Aurora Environmental (Perth) P/L

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Address:

email: EnviroSales@eurofins.com web: www.eurofins.com.au

Dilhorn House 2 Bulwer St

WA 6000

Project Name:

Perth

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Sydney Canberra Br 179 Mappaar Road Unit 12 Dacie Street 17 Giraween Mitchell Mit NSW 2145 ACT 2911 QL NSTA# 1261 S900 8400 T4 #61 2513 8091 Te NATA# 1261 NATA# 1261 NATA# 1261 Site# 25466 Site# 25466 Site#

08 9227 2600 1014773 Order No.: Report #:

08 9227 2699

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Eurofins Environment Testing NZ Ltd

NZBN: 9429048024954

Aug 8, 2023 1:30 PM Aug 15, 2023 Received: Priority: Due:

5 Day Contact Name:

Tim Delavale

Eurofins Analytical Services Manager: Natalie Hill

# Sample Detail

| Pert | h Laboratory - ! | y - NATA # 2377 Site # 2370 | te # 2370 |        |        | × | × | × |
|------|------------------|-----------------------------|-----------|--------|--------|---|---|---|
| Exte | rmal Laboratory  |                             |           |        |        |   |   |   |
| No   | Sample ID        | Sample Date Samplin         | Sampling  | Matrix | LAB ID |   |   |   |

×

×

×

×

×

| 5 |                              | 2                |        |               |
|---|------------------------------|------------------|--------|---------------|
|   | Sample Date Sampling<br>Time | Sampling<br>Time | Matrix | LABID         |
|   | Aug 07, 2023                 |                  | Soil   | L23-Au0019541 |
|   |                              |                  |        |               |

Test Counts

0C2



#### Internal Quality Control Review and Glossary

#### General

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

#### **Holding Times**

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

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

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

#### Units

mg/kg; milligrams per kilogram mg/L; milligrams per litre µg/L; micrograms per litre

ppm: parts per million ppb: parts per billion %: Percentage

org/100 mL: Organisms per 100 millilitres NTU: Nepholometric Turbidity Units MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

#### Terms

APHA American Public Health Association

COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report

CRM Certified Reference Material (ISO17034) - reported as percent recovery.

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison,

LOR Limit of Reporting.

LCS Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.

NOP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

SPIKE Addition of the analyte to the sample and reported as percentage recovery.

SRA Sample Receipt Advice

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery,

TBTO Tributykin cxide (bis-tributykin cxide) - individual tributykin compounds cannot be identified separately in the environment however free tributyltin was measured

and its values were converted stoichiometrically into tributyltin exide for comparison with regulatory limits.

TCLP Toxicity Characteristic Leaching Procedure
TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 5.4

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

#### QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

#### QC Data General Comments

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

Report Number: 1014773-S



#### **Quality Control Results**

| Test   | Units                                   | Result 1         | Acceptance<br>Limits | Pass<br>Limits                          | Qualifying<br>Code |
|--|---|------------------|----------------------|---|--------------------|
| Method Blank   |   |                  |                      |   |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions   | 0.0                                     |                  | j                    |   |                    |
| TRH C6-C9  | mg/kg                                   | < 20             | 20                   | Pass                                    |                    |
| TRH C10-C14  | mg/kg                                   | < 20             | 20                   | Pass                                    |                    |
| TRH C15-C28  | mg/kg                                   | < 50             | 50                   | Pass                                    |                    |
| TRH C29-C36  | mg/kg                                   | < 50             | 50                   | Pass                                    |                    |
| Method Blank   |   | VI W             |                      |   |                    |
| BTEX   |   |                  |                      |   |                    |
| Benzene  | mg/kg                                   | < 0.1            | 0.1                  | Pass                                    |                    |
| Toluene  | mg/kg                                   | < 0.1            | 0.1                  | Pass                                    |                    |
| Ethylbenzene   | mg/kg                                   | < 0.1            | 0.1                  | Pass                                    |                    |
| m&p-Xylenes  | mg/kg                                   | < 0.2            | 0.2                  | Pass                                    |                    |
| o-Xylene   | mg/kg                                   | < 0.1            | 0.1                  | Pass                                    |                    |
| Xylenes - Total*   | mg/kg                                   | < 0.3            | 0.3                  | Pass                                    |                    |
| Method Blank   |   | L                |                      | 1.2.2.2                                 |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions   |   | 0. 1             |                      |   |                    |
| Naphthalene  | mg/kg                                   | < 0.5            | 0.5                  | Pass                                    |                    |
| TRH C6-C10   | mg/kg                                   | < 20             | 20                   | Pass                                    |                    |
| Method Blank   | 1 113113                                |                  |                      | 1 000                                   |                    |
| Organochlorine Pesticides  |   |                  | 77                   | r                                       |                    |
| Chlordanes - Total   | mg/kg                                   | < 0.1            | 0.1                  | Pass                                    |                    |
| 4.4'-DDD   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| 4,4'-DDE   | mg/kg                                   | < 0.05           | 0,05                 | Pass                                    |                    |
| 4.4'-DDT   | mg/kg                                   | < 0.05           | 0,05                 | Pass                                    |                    |
| a-HCH  | 7.0000000000000000000000000000000000000 | < 0.05           | 0.05                 | Pass                                    |                    |
| Aldrin   | mg/kg                                   |                  | 0.05                 | Pass                                    |                    |
| b-HCH  | mg/kg                                   | < 0.05<br>< 0.05 | 0,05                 | Pass                                    |                    |
| Control of the Contro | mg/kg                                   |                  |                      | 100000000000000000000000000000000000000 |                    |
| d-HCH  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Dieldrin   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endosulfan I   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endosulfan II  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endosulfan sulphate  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endrin   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endrin aldehyde  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Endrin ketone  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| g-HCH (Lindane)  | mg/kg                                   | < 0.05           | 0,05                 | Pass                                    |                    |
| Heptachlor   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Heptachlor epoxide   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Hexachlorobenzene  | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Methoxychlor   | mg/kg                                   | < 0.05           | 0.05                 | Pass                                    |                    |
| Method Blank   |   | Ø: W             | 20 N                 |   |                    |
| Total Recoverable Hydrocarbons • 2013 NEPM Fractions   |   |                  | e e                  |   |                    |
| TRH >C10-C16   | mg/kg                                   | < 50             | 50                   | Pass                                    |                    |
| TRH >C16-C34   | mg/kg                                   | < 100            | 100                  | Pass                                    |                    |
| TRH >C34-C40   | mg/kg                                   | < 100            | 100                  | Pass                                    |                    |
| LCS - % Recovery   |   |                  |                      |   |                    |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions   | 4                                       |                  | Ĵ                    |   |                    |
| TRH C6-C9  | %                                       | 97               | 70-130               | Pass                                    |                    |
| TRH C10-C14  | %                                       | 102              | 70-130               | Pass                                    |                    |
| LCS - % Recovery   |   |                  |                      |   |                    |
| BTEX   | J172                                    |                  | Ĭ                    | ľ i                                     |                    |
| Benzene  | %                                       | 102              | 70-130               | Pass                                    |                    |



| Test   | Units                                 | Result 1     | Acceptance<br>Limits                    | Pass<br>Limits | Qualifying<br>Code |
|--|---------------------------------------|--------------|---|----------------|--------------------|
| Toluene  | %                                     | 105          | 70-130                                  | Pass           |                    |
| Ethylbenzene   | %                                     | 101          | 70-130                                  | Pass           |                    |
| m&p-Xylenes  | %                                     | 103          | 70-130                                  | Pass           |                    |
| o-Xylene   | %                                     | 112          | 70-130                                  | Pass           |                    |
| Xylenes - Total*                                     | %                                     | 106          | 70-130                                  | Pass           |                    |
| LCS - % Recovery                                     |                                       | , , , , ,    |   |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | -0.7                                  |              |   |                |                    |
| Naphthalene  | %                                     | 115          | 70-130                                  | Pass           |                    |
| TRH C6-C10   | %                                     | 95           | 70-130                                  | Pass           |                    |
| LGS - % Recovery                                     | *                                     |              | *                                       | 11.            |                    |
| Organochlorine Pesticides                            | 201                                   |              |   |                |                    |
| Chlordanes - Total                                   | %                                     | 108          | 70-130                                  | Pass           |                    |
| 4.4'-DDD   | %                                     | 115          | 70-130                                  | Pass           |                    |
| 4,4'-DDE   | %                                     | 103          | 70-130                                  | Pass           |                    |
| 4.4'-DDT   | %                                     | 88           | 70-130                                  | Pass           |                    |
| a-HCH  | %                                     | 115          | 70-130                                  | Pass           |                    |
| Aldrin   | %                                     | 111          | 70-130                                  | Pass           |                    |
| b-HCH  | %                                     | 107          | 70-130                                  | Pass           |                    |
| d-HCH  | %                                     | 112          | 70-130                                  | Pass           |                    |
| Dieldrin   | %                                     | 105          | 70-130                                  | Pass           |                    |
| Endosulfan I   | %                                     |              |   | Pass           |                    |
| Endosulfan II  | %                                     | 111          | 70-130<br>70-130                        | Pass           |                    |
|  | 2.57                                  | 11 2175(255) | 1 | 1777           |                    |
| Endosulfan sulphate                                  | %                                     | 110          | 70-130                                  | Pass           |                    |
| Endrin   | %                                     | 82           | 70-130                                  | Pass           |                    |
| Endrin aldehyde                                      | %                                     | 108          | 70-130                                  | Pass           |                    |
| Endrin ketone  | %                                     | 108          | 70-130                                  | Pass           |                    |
| g-HCH (Lindane)                                      | %                                     | 116          | 70-130                                  | Pass           |                    |
| Heptachlor   | %                                     | 84           | 70-130                                  | Pass           |                    |
| Heptachlor epoxide                                   | %                                     | 103          | 70-130                                  | Pass           |                    |
| Hexachlorobenzene                                    | %                                     | 106          | 70-130                                  | Pass           |                    |
| Methoxychlor   | %                                     | 89           | 70-130                                  | Pass           |                    |
| LCS - % Recovery                                     |                                       | 7            |   |                |                    |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | · · · · · · · · · · · · · · · · · · · |              |   |                |                    |
| TRH >C10-C16   | %                                     | 99           | 70-130                                  | Pass           |                    |
| LCS - % Recovery                                     | NI.                                   | , y          | 0 0                                     |                |                    |
| Arsenic  | %                                     | 106          | 80-120                                  | Pass           |                    |
| Cadmium  | %                                     | 109          | 80-120                                  | Pass           |                    |
| Chromium   | %                                     | 99           | 80-120                                  | Pass           |                    |
| Copper   | %                                     | 94           | 80-120                                  | Pass           |                    |
| Lead   | %                                     | 102          | 80-120                                  | Pass           |                    |
| Mercury  | %                                     | 115          | 60-120                                  | Pass           |                    |
| Nickel   | %                                     | 97           | 80-120                                  | Pass           |                    |
| Zinc   | %                                     | 97           | 80-120                                  | Pass           |                    |
| CRM - % Recovery                                     |                                       |              |   | ,              |                    |
| Arsenic  | %                                     | 106          | 80-120                                  | Pass           |                    |
| Cadmium  | %                                     | 103          | 80-120                                  | Pass           |                    |
| Chromium   | %                                     | 98           | 80-120                                  | Pass           |                    |
| Copper   | %                                     | 98           | 80-120                                  | Pass           |                    |
| Lead   | %                                     | 103          | 80-120                                  | Pass           |                    |
| Nickel   | %                                     | 99           | 80-120                                  | Pass           |                    |
| Zinc   | %                                     | 99           | 80-120                                  | Pass           |                    |

Report Number: 1014773-S



| Test                       | Lab Sample ID          | QA<br>Source | Units | Result 1   |                                       |         | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|----------------------------|------------------------|--------------|-------|------------|---------------------------------------|---------|----------------------|----------------|--------------------|
| Spike - % Recovery         |                        |              |       | -          |                                       | 8       | 10                   | Į .            |                    |
| Total Recoverable Hydrocar |                        | ions         |       | Result 1   |                                       |         |                      |                |                    |
| TRH C6-C9                  | L23-Au0027414          | NCP          | %     | 99         |                                       |         | 70-130               | Pass           |                    |
| TRH C10-C14                | L23-Au0013083          | NCP          | %     | 88         |                                       |         | 70-130               | Pass           |                    |
| Spike - % Recovery         |                        |              |       |            |                                       |         |                      |                |                    |
| BTEX                       | 40                     | r            |       | Result 1   |                                       |         |                      |                |                    |
| Benzene                    | L23-Au0027414          | NCP          | %     | 90         |                                       |         | 70-130               | Pass           |                    |
| Toluene                    | L23-Au0027414          | NCP          | %     | 111        |                                       |         | 70-130               | Pass           |                    |
| Ethylbenzene               | L23-Au0027414          | NCP          | %     | 115        |                                       |         | 70-130               | Pass           |                    |
| m&p-Xylenes                | L23-Au0027414          | NCP          | %     | 101        |                                       |         | 70-130               | Pass           |                    |
| o-Xylene                   | L23-Au0027414          | NCP          | %     | 114        |                                       |         | 70-130               | Pass           |                    |
| Xylenes - Total*           | L23-Au0027414          | NCP          | %     | 105        |                                       |         | 70-130               | Pass           |                    |
| Spike - % Recovery         |                        |              |       | 74         |                                       |         | 27                   | . 1            |                    |
| Total Recoverable Hydrocar | bons - 2013 NEPM Fract | ions         |       | Result 1   |                                       |         |                      |                |                    |
| Naphthalene                | L23-Au0027414          | NCP          | %     | 111        |                                       |         | 70-130               | Pass           |                    |
| TRH C6-C10                 | L23-Au0027414          | NCP          | %     | 97         |                                       |         | 70-130               | Pass           |                    |
| Spike - % Recovery         | 7/0                    | 70 7/        |       | 10         | W V                                   |         | W                    |                |                    |
| Organochlorine Pesticides  |                        | No           |       | Result 1   |                                       |         | 3                    |                |                    |
| Chlordanes - Total         | L23-Au0013084          | NCP          | %     | 108        |                                       |         | 70-130               | Pass           |                    |
| 4.4'-DDD                   | L23-Au0013084          | NCP          | %     | 115        | 1.                                    |         | 70-130               | Pass           |                    |
| 4.4'-DDE                   | L23-Au0013084          | NCP          | %     | 102        |                                       | [       | 70-130               | Pass           |                    |
| 4.4'-DDT                   | L23-Au0013084          | NCP          | %     | 88         |                                       | 1       | 70-130               | Pass           |                    |
| a-HCH                      | L23-Au0013084          | NCP          | %     | 115        |                                       |         | 70-130               | Pass           |                    |
| Aldrin                     | L23-Au0013084          | NCP          | %     | 111        |                                       |         | 70-130               | Pass           |                    |
| ь-нсн                      | L23-Au0013084          | NCP          | %     | 107        |                                       | 1       | 70-130               | Pass           |                    |
| d-HCH                      | L23-Au0013084          | NCP          | %     | 112        |                                       |         | 70-130               | Pass           |                    |
| Dieldrin                   | L23-Au0013084          | NCP          | %     | 105        |                                       |         | 70-130               | Pass           |                    |
| Endosulfan I               | L23-Au0013084          | NCP          | %     | 111        |                                       |         | 70-130               | Pass           |                    |
| Endosulfan II              | L23-Au0013084          | NCP          | %     | 113        |                                       |         | 70-130               | Pass           |                    |
| Endosulfan sulphate        | L23-Au0013084          | NCP          | %     | 110        | 1.                                    |         | 70-130               | Pass           |                    |
| Endrin                     | L23-Au0013084          | NCP          | %     | 82         |                                       |         | 70-130               | Pass           |                    |
| Endrin aldehyde            | L23-Au0013084          | NCP          | %     | 108        |                                       |         | 70-130               | Pass           |                    |
| Endrin ketone              | L23-Au0013084          | NCP          | %     | 108        |                                       |         | 70-130               | Pass           |                    |
| g-HCH (Lindane)            | L23-Au0013084          | NCP          | %     | 116        | †                                     |         | 70-130               | Pass           |                    |
| Heptachlor                 | L23-Au0013084          | NCP          | %     | 84         |                                       |         | 70-130               | Pass           |                    |
| Heptachlor epoxide         | L23-Au0013084          | NCP          | %     | 103        |                                       |         | 70-130               | Pass           |                    |
| Hexachlorobenzene          | L23-Au0013084          | NCP          | %     | 106        | 4                                     |         | 70-130               | Pass           |                    |
| Methoxychlor               | L23-Au0013084          | NCP          | %     | 89         |                                       |         | 70-130               | Pass           |                    |
| Spike - % Recovery         |                        | 1,10,1       |       |            |                                       |         | 1 13.125             | 1,000          |                    |
| Total Recoverable Hydrocar | bons - 2013 NEPM Fract | ions         |       | Result 1   |                                       |         | T                    |                |                    |
| TRH >C10-C16               | L23-Au0013083          | NCP          | %     | 93         |                                       |         | 70-130               | Pass           |                    |
| Test                       | Lab Sample ID          | QA<br>Source | Units | Result 1   |                                       |         | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
| Duplicate                  | -10                    | 100:         | ,     | -73<br>-24 | W 3                                   | 0<br>15 | 50                   | ĺ              |                    |
| Total Recoverable Hydrocar | bons - 1999 NEPM Fract | ions         |       | Result 1   | Result 2                              | RPD     |                      |                |                    |
| TRH C6-C9                  | L23-Au0019541          | CP           | mg/kg | < 20       | < 20                                  | <1      | 30%                  | Pass           |                    |
| TRH C10-C14                | L23-Au0013093          | NCP          | mg/kg | < 20       | < 20                                  | <1      | 30%                  | Pass           |                    |
| TRH C15-C28                | L23-Au0013093          | NCP          | mg/kg | < 50       | < 50                                  | <1      | 30%                  | Pass           |                    |
| TRH C29-C36                | L23-Au0013093          | NCP          | mg/kg | < 50       | < 50                                  | <1      | 30%                  | Pass           |                    |
| Duplicate                  |                        | - may 7.7%   |       |            | · · · · · · · · · · · · · · · · · · · |         | 3135.335             |                |                    |
| BTEX                       |                        |              |       | Result 1   | Result 2                              | RPD     |                      |                |                    |
| Benzene                    | L23-Au0019541          | CP           | mg/kg | < 0.1      | < 0.1                                 | <1      | 30%                  | Pass           |                    |
| Toluene                    | L23-Au0019541          | GP.          | mg/kg | < 0.1      | < 0.1                                 | <1      | 30%                  | Pass           |                    |
| Ethylbenzene               | L23-Au0019541          | CP           | mg/kg | < 0.1      | < 0.1                                 | <1      | 30%                  | Pass           |                    |
| m&p-Xylenes                | L23-Au0019541          | CP           | mg/kg | < 0.2      | < 0.2                                 | <1      | 30%                  | Pass           |                    |



| Duplicate                 |                          |          |       |          |          |     |     |      |
|---------------------------|--------------------------|----------|-------|----------|----------|-----|-----|------|
| BTEX                      |                          |          |       | Result 1 | Result 2 | RPD |     |      |
| o-Xylene                  | L23-Au0019541            | CP       | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Xylenes - Total*          | L23-Au0019541            | CP       | mg/kg | < 0,3    | < 0,3    | <1  | 30% | Pass |
| Duplicate                 |                          |          |       |          |          |     |     |      |
| Total Recoverable Hydroca | rbons - 2013 NEPM Fracti | ons      |       | Result 1 | Result 2 | RPD |     |      |
| Naphthalene               | L23-Au0019541            | CP       | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| TRH C6-C10                | L23-Au0019541            | CP       | mg/kg | < 20     | < 20     | <1  | 30% | Pass |
| Duplicate                 |                          |          |       | 741      |          |     |     | ii.  |
| Organochlorine Pesticides | Result 1                 | Result 2 | RPD   |          |          |     |     |      |
| Chlordanes - Total        | L23-Au0013093            | NCP      | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| 4.4'-DDD                  | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| 4.4'-DDE                  | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| 4.4'-DDT                  | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| a-HCH                     | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Aldrin                    | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| ь-нсн                     | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| d-HCH                     | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Dieldrin                  | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endosulfan I              | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endosulfan II             | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endosulfan sulphate       | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endrin                    | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endrin aldehyde           | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Endrin ketone             | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| g-HCH (Lindane)           | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Heptachlor                | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Heptachlor epoxide        | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Hexachlorobenzene         | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Methoxychlor              | L23-Au0013093            | NCP      | mg/kg | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Duplicate                 | W-11674/VX-124-001       |          | A     | W        | //       |     |     |      |
| Total Recoverable Hydroca | rbons - 2013 NEPM Fracti | ons      |       | Result 1 | Result 2 | RPD |     |      |
| TRH >C10-C16              | L23-Au0013093            | NCP      | mg/kg | < 50     | < 50     | <1  | 30% | Pass |
| TRH >C16-C34              | L23-Au0013093            | NCP      | mg/kg | < 100    | < 100    | <1  | 30% | Pass |
| TRH >C34-C40              | L23-Au0013093            | NCP      | mg/kg | < 100    | < 100    | <1  | 30% | Pass |
| Duplicate                 |                          |          |       |          |          |     |     |      |
| Sample Properties         |                          |          |       | Result 1 | Result 2 | RPD |     |      |
| % Moisture                | L22-De0011844            | NCP      | %     | 75       | 76       | <1  | 30% | Pass |



#### Comments

#### Sample Integrity

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

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

Code Description

F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). N01

Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.

F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. N04

#### Authorised by:

N02

Natalie Hill Analytical Services Manager

Douglas Todd Senior Analyst-Metal

Douglas Todd Senior Analyst-Sample Properties

Patrick Patfield Senior Analyst-Organic Patrick Patfield Senior Analyst-Volatile



Final Report - this report replaces any previously issued Report

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

Measurement uncertainty of test data is available on request

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Report Number: 1014773-S



0/64-66 Bannister Rd, Canning Vale, WA 6155 'hone: 08 9354 7405 or mobile: 0414382415 'ax: 08 6323 1028 'mail: info@lifetrecenvironmental.com.au vww.lifetrecenvironmental.com.au

#### CERTIFICATE FOR THE QUALITATIVE IDENTIFICATION OF ASBESTOS AND OTHER FIBRES

Client: Aurora Environmental

Contact Name:

Client Address: Dilhorn House, 2 Bulwer St, Perth

Email: info@auroraenvironmental.com.au

Tel.: (08) 9227 2600

Certificate No.: BA17919 (Issue Date: 18.08.23)

Date Sampled: 07.08.23 Sampled by: Tim Delavale Date Received: 16.08.23 Date Analysed: 17.08.23

Test Method: All analysis is carried out using the PLM and DS method as detailed in accordance with AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples' and Lifetree Environmental Pty Ltd in-house Procedures Manual 1.

Notes: The results contained within this report relate only to sample(s) submitted for testing, in the condition received at the laboratory. No responsibility is accepted for errors, which may have arisen during sampling, packaging or transportation of samples by external clients. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. The reporting limit of AS4964-2004 is in the range of 0.01-0.1% w/w equivalent to 0.1-1g/kg.

#### Client Job ID: MSG2023-003

| Lab No.    | Client Sample<br>No. | Sample Description | Sample<br>Weight (g) | Identification Type(s)   |
|------------|----------------------|--------------------|----------------------|--|
| BA17919/01 | PACM 1               | Fibre Cement       | 91.14g               | Chrysotile Asbestos Detected<br>Amosite Asbestos Detected                                  |
| BA17919/02 | PACM 2               | Fibre Cement       | 21.76g               | Chrysotile Asbestos Detected   |
| BA17919/03 | PACM 3               | Fibre Cement       | 42.38g               | Chrysotile Asbestos Detected<br>Crocidolite Asbestos Detected                              |
| BA17919/04 | PACM 4               | Fibre Cement       | 12.64g               | Chrysotile Asbestos Detected<br>Amosite Asbestos Detected<br>Crocidolite Asbestos Detected |
| BA17919/05 | PACM 5               | Fibre Cement       | 5.25g                | No Asbestos Detected<br>Organic Fibres Detected  |

Approved Analyst:

Approved Signatory:



NATA Accredited Laboratory Number: 19181
Accredited for compliance with ISO/IEC 17025 - Testing.
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| Lifetree Environmental Pty Ltd | QC Form 027            | Revision No.05  |  |
|--------------------------------|------------------------|-----------------|--|
| Page 1 of 1                    | Issue Date: 01.06.2014 | Approved By: ST |  |





#### Envirolab Services (WA) Pty Ltd trading as MPL Laboratories ABN 53 140 099 207

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#### **Certificate of Analysis PEH0448**

#### **Client Details**

**Client** Aurora Environmental (Perth) Pty Ltd

Contact

**Address** 2 Bulwer St, PERTH, WA, 6000

#### **Sample Details**

Your Reference MSG-2023-003

Number of Samples 26 Soil

Date Instructions Received18/09/2023Date Samples Registered07/08/2023

#### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

#### **Report Details**

Date Results Requested by 22/09/2023

**Date of Reissue** 22/09/2023 - This report supercedes previous report, see amendment history for details

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#### **Authorisation Details**

Results Approved By Heram Halim, Operations Manager

Michael Hall, Inorganics & Metals Supervisor Todd Lee, Group Operations Manager Travis Carey, Organics Supervisor

**Laboratory Manager** Michael Kubiak

Your Reference:

MSG-2023-003

Revision: R-01 Certificate of Analysis Generated: 22/09/2023 19:19:52

#### **Report Amendment History**

| Revision | Reason for Amendment                  |
|----------|---------------------------------------|
| R-01     | Additional analysis requested 19-9-23 |

Your Reference: Revision: R-01

MSG-2023-003

#### **Samples in this Report**

| Envirolab ID | Sample ID    | Matrix | Date Sampled | Date Received |
|--------------|--------------|--------|--------------|---------------|
| PEH0448-01   | TP1-0-0.3    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-02   | TP1-0.3-0.45 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-03   | TP1-0.45-0.5 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-04   | TP2-0-0.2    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-05   | TP2-0.2-0.5  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-06   | TP3-0-0.5    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-07   | TP3-0.5-1.0  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-08   | TP4-0-1.1    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-09   | TP4-1,1-1.6  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-10   | TP5-0-0.1    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-11   | TP6-0-1,2    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-12   | TP6-1.2-1.3  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-13   | TP7-0-1.0    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-14   | TP7-1.0-1.5  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-15   | TP8-0,8-1,2  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-16   | TP9-0-1.0    | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-17   | TP9-1.0-1.5  | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-18   | TP10-0-0.1   | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-19   | TP10-0.4-0.5 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-20   | TP11-0-1.0   | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-21   | TP11-1.0-1.5 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-22   | TP12-3.0-3.5 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-23   | TP12-0-3.0   | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-24   | TP14-0-0.8   | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-25   | TP14-0.8-1.3 | Soil   | 07/08/2023   | 08/08/2023    |
| PEH0448-26   | QC1          | Soil   | 07/08/2023   | 08/08/2023    |

#### Volatile TRH and BTEX (Soil)

| Envirolab ID<br>Your Reference   | Units   | PQL    | PEH0448-01<br>TP1-0-0,3                | PEH0448-02<br>TP1-0.3-0.45              | PEH0448-04<br>TP2-0-0,2  | PEH0448-06<br>TP3-0-0.5                      | PEH0448-0<br>TP4-0-1,1 |
|--|---------|--------|--|---|--------------------------|--|------------------------|
| Date Sampled   |         |        | 07/08/2023                             | 07/08/2023                              | 07/08/2023               | 07/08/2023                                   | 97/08/202              |
| TRH C6-C9  | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| TRH C6-C10   | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| TRH C6-C10 less BTEX (F1)  | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| Methyl tert butyl ether (MTBE)   | mg/kg   | 0.50   | <0.50                                  | <0,50                                   | <0,50                    | <0,50  | <0.50                  |
| Benzene  | mg/kg   | 0.20   | <0.20                                  | <0.20                                   | <0.20                    | <0.20  | <0.20                  |
| Taluene  | mg/kg   | 0.50   | <0.50                                  | <0.50                                   | <0.50                    | <0.50  | <0.50                  |
| Ethylbenzene   | mg/kg   | 1.0    | <1.0                                   | <1,0                                    | <1.0                     | <1,0   | <1.0                   |
| meta+para Xylene   | mg/kg   | 2,0    | <2,0                                   | <2,0                                    | <2,0                     | <2,0   | <2,0                   |
| ortho-Xylene   | mg/kg   | 1.0    | <1.0                                   | <1.0                                    | <1.0                     | <1.0   | <1.0                   |
| Total Xylene   | mg/kg   | 3,0    | <3,0                                   | <3.0                                    | <3,0                     | <3,0   | <3.0                   |
| Naphthallene (value used in F2 calc)   | mg/kg   | 1.0    | <1.0                                   | <1.0                                    | <1,0                     | <1.0   | <1.0                   |
| Surrogate aaa-Trifluorotoluene   | %       |        | 90.8                                   | 77.1                                    | 107                      | 102  | 104                    |
| Envirolab ID   | Units   | DO!    | PEH0448-10                             | PEH0448-11                              | PEH0448-13               | PEH0448-15                                   | PEH0448-1              |
| Your Reference   | Units   | PQL    | TP5-0-0.1                              | TP5-0-1,2                               | TP7-0-1.0                | TP8-0.8-1.2                                  | TP9-0-1.0              |
| Date Sampled   |         |        | 07/08/2023                             | 07/08/2023                              | 07/08/2023               | 07/08/2023                                   | 07/08/202              |
| TRH 06-09  | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| TRH 06-C10   | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| TRH 06-C10 less BTEX (F1)  | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| Methyl tert butyl ether (MTBE)   | mg/kg   | 0.50   | <0.50                                  | <0,50                                   | <0,50                    | <0,50  | <0.50                  |
| Benzene  | mg/kg   | 0.20   | <0.20                                  | <0.20                                   | <0.20                    | <0.20  | <0.20                  |
| Toluene  | mg/kg   | 0.50   | <0,50                                  | <0,50                                   | <0.50                    | <0.50  | <0,50                  |
| Ethylbenzene   | mg/kg   | 1,0    | <1,0                                   | <1,0                                    | <1,0                     | <1,0   | <1.0                   |
| meta+para Xylene   | mg/kg   | 2.0    | <2.0                                   | <2.0                                    | <2.0                     | <2,0   | <2.0                   |
| ortho-Xylene   | mg/kg   | 1.0    | <1.0                                   | <1.0                                    | <1.0                     | <1.0   | <1.0                   |
| Total Xylene   | mg/kg   | 3.0    | <3.0                                   | <3.0                                    | <3.0                     | <3.0   | <3.0                   |
| Naghthelene (value used in F2 calc)  | mg/kg   | 140    | <1.0                                   | <1.0                                    | <1,0                     | <1.0   | <1.0                   |
| Surrogate aaa-Trifluorotoluene   | %       |        | 106                                    | 98.0                                    |                          | 112  | 118                    |
| and the second s | Mediano | 0.5600 | 19000000000000000000000000000000000000 | *************************************** | DE DOWNSANEAN            | 11/10/20/20/20/20/20/20/20/20/20/20/20/20/20 | 6 - VO WALKSTON        |
| Envirolab ID   | Units   | PQL.   | PEH0448-18                             | PEH0448-20                              | PEH0448-23               | PEH0448-24                                   | PEH0448-2              |
| Your Reference<br>Date Sampled   |         |        | TP10-0-0.1<br>07/08/2023               | TP11-0-1.0<br>07/08/2023                | TP12-0-3.0<br>07/08/2023 | TP14-0-0.8<br>07/08/2023                     | QC1<br>07/08/202       |
|  | COLUMN  | ne.    |  | - I de la company                       | - Nicola                 |  |                        |
| TRH 06-09  | mg/kg   | 25     | <25<br>-25                             | <25                                     | <25                      | <25  | <25                    |
| TRH 06-C10   | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25<br>25                                    | <25                    |
| TRH 06-C10 less BTEX (F1)  | mg/kg   | 25     | <25                                    | <25                                     | <25                      | <25  | <25                    |
| Methyl tert butyl ether (MTBE)   | mg/kg   | 0.50   | <0.50                                  | <0.50                                   | <0.50                    | <0.50  | <0.50                  |
| Benzene  | mg/kg   | 0.20   | <0.20                                  | <0.20                                   | <0.20                    | <0.20  | <0.20                  |
| Toluene  | mg/kg   | 0.50   | <0,50                                  | <0,50                                   | <0,50                    | <0,50  | <0,50                  |
| Ethylbenzene   | mg/kg   | 1,0    | <1,0                                   | <1,0                                    | <1,0                     | <1,0   | <1,0                   |
| meta+pera Xylene   | mg/kg   | 2.0    | <2.0                                   | <2.0                                    | <2.0                     | <2.0   | <2.0                   |
| ortho-Xylene   | mg/kg   | 170    | <1.0                                   | <1.0                                    | <1.0                     | <1.0   | <1.0                   |
| Total Xylene   | mg/kg   | 3.0    | <3.0                                   | <3.0                                    | <3.0                     | <3.0   | <3.0                   |
| Naprithallene (value used in F2 calc)  | mg/kg   | 1,0    | <1,0                                   | <1,0                                    | <1.0                     | <1,0   | <1.0                   |
| Surrogate aaa-Trifiuorotoluene   | %       |        | 108                                    |   |                          | 121  | 118                    |

Your Reference:

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#### Semi-volatile TRH (Soil)

| Envirolab ID<br>Your Reference<br>Date Sampled | Units     | PQL | PEH0448-01<br>TP1-0-0,3<br>07/08/2023 | PEH0448-02<br>TP1-0,3-0,45<br>07/08/2023 | PEH0448-04<br>TP2-0-0,2<br>07/08/2023 | PEH0448-06<br>TP3-0-0,5<br>07/08/2023 | PEH0448-08<br>TP4-0-1.1<br>07/08/2023 |
|--|-----------|-----|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| TRH C10-C14                                    | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH C15-C28                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH C29-C36                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Total +ve TRH C10-C36                          | mig/kg    | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16                                   | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16 less Naphthalene FZ               | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C16-C34 (F3)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH >C34-C40 (F4)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Fotal +ve TRH >C10-C40                         | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| Surrogate o-Terphenyl                          | %         |     | 97.4                                  | 97.8                                     | 100                                   | 105                                   | 102                                   |
| Envirolab ID                                   | Units     | PQL | PEH0448-10                            | PEH0448-11                               | PEH0448-13                            | PEH0448-15                            | PEH0448-16                            |
| Your Reference                                 | 1,277,071 |     | TP5-0-0.1                             | TP6-0-1.2                                | TP7-0-1.0                             | TP8-0.8-1.2                           | TP9-0-1.0                             |
| Date Sampled                                   |           |     | 07/08/2023                            | 07/08/2023                               | 07/08/2023                            | 07/08/2023                            | 07/08/2023                            |
| TRH C10-C14                                    | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH C15-C28                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH C29-C36                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Total +ve TRH C10-C36                          | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16                                   | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16 less Naphthalene F2               | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C16-C34 (F3)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH >C34-C40 (F4)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Total +ve TRH >C10-C40                         | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| Surrogate o-Terphenyl                          | %         |     | 100                                   | 102                                      | 105                                   | 106                                   | 100                                   |
| Envirolab ID                                   | Units     | PQL | PEH0448-18                            | PEH0448-20                               | PEH0448-23                            | PEH0448-24                            | PEH0448-20                            |
| Your Reference                                 |           |     | TP10-0-0.1                            | TP11-0-1.0                               | TP12-0-3.0                            | TP14-0-0,8                            | QC1                                   |
| Date Sampled                                   |           |     | 07/08/2023                            | 07/08/2023                               | 07/08/2023                            | 07/08/2023                            | 07/08/2023                            |
| TRH CLO-C14                                    | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH C15-C28                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH C29-C36                                    | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Total +ve TRH C10-C36                          | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16                                   | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C10-C16 loss Naphthalene F2               | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| TRH >C16-C34 (F3)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| TRH >C34-C40 (F4)                              | mg/kg     | 100 | <100                                  | <100                                     | <100                                  | <100                                  | <100                                  |
| Total +ve TRH >C10-C40                         | mg/kg     | 50  | <50                                   | <50                                      | <50                                   | <50                                   | <50                                   |
| Surragate o-Terphenyl                          | %         |     | 106                                   | 99.3                                     | 106                                   | 105                                   | 102                                   |

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#### Organochlorine Pesticides (Soil)

| Envirolab ID<br>Your Reference | Units | PQL  | PEH0448-01<br>TP1-0-0,3 | PEH0448-02<br>TP1-0,3-0,45 | PEH0448-04<br>TP2-0-0,2 | PEH0448-06<br>TP3-0-0.5 | PEH0448-08<br>TP4-0-1.1 |
|--------------------------------|-------|------|-------------------------|----------------------------|-------------------------|-------------------------|-------------------------|
| Date Sampled                   |       |      | 07/08/2023              | 07/08/2023                 | 07/08/2023              | 07/08/2023              | 07/08/2023              |
| elpha-BHC                      | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Hexachlorobenzene              | mg/kg | 0.10 | <0,10                   | <0.10                      | <0,10                   | <0.10                   | <0.10                   |
| beta-BHC                       | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| ратита-ВНС                     | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| delta-BHC                      | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| teptachlor                     | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| <b>Vi</b> drin                 | mg/kg | 0.10 | <0.10                   | <0.10                      | <0,10                   | <0,10                   | <0.10                   |
| leptachlor epoxide             | mg/kg | 0,10 | <0,10                   | <0,10                      | <0,10                   | <0,10                   | <0.10                   |
| rans-Chlordane                 | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| is-Chlordane                   | mg/kg | 0,10 | <0,10                   | <0,10                      | <0,10                   | <0.10                   | <0.10                   |
| Endosulfan I                   | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| ,4*DDE                         | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Dieldrin                       | mg/kg | 0.10 | 0.30                    | <0.10                      | <0.10                   | 0.20                    | <0.10                   |
| Endrin                         | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| 1,4°-DDD                       | mg/kg | 0,10 | <0,10                   | <0,10                      | <0,10                   | <0,10                   | <0,10                   |
| Endosu <b>l</b> fan II         | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Endrin aldehyde                | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| +,4'-DDT                       | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | 0.25                    | <0.10                   |
| indosulfan sulfate             | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Endrin ketone                  | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Methoxychlor                   | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Mirex                          | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Fotal +ve OCP                  | mg/kg | 0.10 | 0.30                    | <0.10                      | <0.10                   | 0.45                    | <0.10                   |
| Surrogate 2-Chlorophenol-D4    | %     |      | 89.5                    | 88.5                       | 92.3                    | 90.2                    | 91.9                    |
| Envirolab ID                   | Units | PQL  | PEH0448-10              | PEH0448-11                 | PEH0448-13              | PEH0448-15              | PEH0448-16              |
| Your Reference                 |       |      | TP5-0-0.1               | TP6-0-1.2                  | TP7-0-1.0               | TP8-0.8-1.2             | TP9-0-1.0               |
| Date Sampled                   |       |      | 07/08/2023              | 07/08/2023                 | 07/08/2023              | 07/08/2023              | 07/08/2023              |
| lipha-BHC                      | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Hexachlorobenzene              | mg/kg | 0,10 | <0.10                   | <0,10                      | <0,10                   | <0,10                   | <0,10                   |
| neta-BHC gamma-                | mg/kg | 0,10 | <0,10                   | <0,10                      | <0,10                   | <0,10                   | <0,10                   |
| BHC delta-BHC                  | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| leptachlor                     | mg/kg | 0,10 | <0.10                   | <0,10                      | <0,10                   | <0,10                   | <0,10                   |
| Aldrin                         | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Heptachlor epoxide             | mg/kg | 0.10 | <0,10                   | <0.10                      | <0,10                   | <0,10                   | <0.10                   |
| rans-Chlordane                 | mg/kg | 0.10 | <0.10                   | <0,10                      | <0.10                   | <0.10                   | <0.10                   |
| is-Chlordane                   | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Endosulfan I                   | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| 1,4'-DDE                       | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| Dieldrin                       | mg/kg | 0.10 | <0,10                   | <0,10                      | <0,10                   | <0,10                   | <0.10                   |
| Endrin 4,4'-                   | mg/kg | 0.10 | <0.10                   | 0.39                       | <0.10                   | <0.10                   | <0.10                   |
| 000                            | mg/kg | 0.10 | <0.10                   | <0.10                      | <0.10                   | <0.10                   | <0.10                   |
| NO.                            |       |      |                         |                            |                         |                         |                         |

Your Reference:

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#### Organochlorine Pesticides (Soil)

| Envirolab ID<br>Your Reference<br>Date Sampled | Units   | PQL     | PEH0448-10<br>TP5-0-0,1<br>07/08/2023 | PEH0448-11<br>TP6-0-1,2<br>07/08/2023 | PEH0448-13<br>TP7-0-1.0<br>07/08/2023 | PEH0448-15<br>TP8-0,8-1,2<br>07/08/2023 | PEH0448-16<br>TP9-0-1,0<br>07/08/2023 |
|--|---|---------|---------------------------------------|---------------------------------------|---------------------------------------|---|---------------------------------------|
| Endosulfan II                                  | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Endrin aldehyde                                | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0,10                                 | <0.10                                   | <0.10                                 |
| 4,4'-DDT                                       | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Endosulfan sulfate                             | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Endrin ketone                                  | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Methoxychlor                                   | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Mirex  | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Total +ve OCP                                  | 19.1 (19.0 (1 | 0,10    | <0,10                                 | 0,39                                  | <0,10                                 | - 4265.200                              | <0.10                                 |
| Surrogate 2-Chlorophenol-D4                    | mg/kg<br>%  | 0,10    | 88.9                                  | 94.2                                  | 88.9                                  | <0,10<br>91.5                           | 88.4                                  |
| surrogate 2-takeroprienor-o-                   | - 70  |         | 50.9                                  | 204                                   | 00.3                                  | 313                                     | 80.4                                  |
| Envirolab ID                                   | Units   | PQL     | PEH0448-18                            | PEH0448-20                            | PEH0448-23                            | PEH0448-24                              | PEH0448-26                            |
| Your Reference                                 |   |         | TP10-0-0.1                            | TP11-0-1.0                            | TP12-0-3.0                            | TP14-0-0,8                              | ÓC1                                   |
| Date Sampled                                   |   |         | 07/08/2023                            | 07/08/2023                            | 07/08/2023                            | 07/08/2023                              | 07/08/2023                            |
| alpha-BHC                                      | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Hexachlorobenzene                              | mg/kg   | 0.10    | <0.10                                 | <0,10                                 | <0,10                                 | <0,10                                   | <0.10                                 |
| oeta-BHC                                       | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| gamma-BHC                                      | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| delta-8HC                                      | mg/kg   | 0.10    | <0.10                                 | <0,10                                 | <0,10                                 | <0.10                                   | <0,10                                 |
| Heptachlor                                     | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Aldrin   | mg/kg   | 0.10    | <0.10                                 | <0,10                                 | <0.10                                 | <0,10                                   | <0.10                                 |
| Heptachlor epoxide                             | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| trans-Chlordane                                | rng/kg  | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| cis-Chlordane                                  | mg/kg   | 0,10    | <0,10                                 | <0,10                                 | <0,10                                 | <0,10                                   | <0.10                                 |
| Endosulfan I                                   | mg/kg   | 0.10    | <0.10                                 | <0,10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| 4,4'-DDE                                       | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Dieldrin                                       | mg/kg   | 0.10    | 0.31                                  | 0.14                                  | 0.24                                  | <0.10                                   | <0.10                                 |
| Endrin   | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| 4,4'-000                                       | mg/kg   | 0.10    | <0.10                                 | <0,10                                 | <0,10                                 | <0.10                                   | <0.10                                 |
| Endosulfan II                                  | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Endrin aldehyde                                | mg/kg   | 0,10    | <0,10                                 | <0,10                                 | <0,10                                 | <0,10                                   | <0,10                                 |
| 4,4-DDT  | mg/kg   | 0,10    | <0,10                                 | <0,10                                 | <0,10                                 | <0,10                                   | <0,10                                 |
| Endosulfan sulfate                             | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Endrin ketone                                  | mg/kg   | 0,10    | <0,10                                 | <0,10                                 | <0,10                                 | <0,10                                   | <0.10                                 |
| Methoxychlor                                   | mg/kg   | 0.10    | <0.10                                 | <0.10                                 | <0.10                                 | <0.10                                   | <0.10                                 |
| Mirex  | mg/kg   | 0,10    | <0,10                                 | <0.10                                 | <0,10                                 | <0,10                                   | <0.10                                 |
| Total +ve OCP                                  | mg/kg   | 0.10    | 0,31                                  | 0.14                                  | 0.24                                  | <0.10                                   | <0.10                                 |
| Surrogate 2-Chlorophenol-D4                    | %   | 1995668 | 93.1                                  | 92.3                                  | 94.7                                  | 91.3                                    | 92.7                                  |

Your Reference:

MSG-2023-003

Revision: R-01

#### Acid Extractable Metals (Soil)

| Envirolab ID<br>Your Reference   | Units   | PQL   | PEH0448-01<br>TP1-0-0,3   | PEH0448-02<br>TP1-0,3-0,45 | PEH0448-04<br>TP2-0-0,2   | PEH0448-06<br>TP3-0-0.5   | PEH0448-08<br>TP4-0-1,1    |
|--|---|---|---|----------------------------|---------------------------|---------------------------|----------------------------|
| Date Sampled   |   |   | 07/08/2023  | 07/08/2023                 | 07/08/2023                | 07/08/2023                | 07/08/2023                 |
| Arsenic  | mg/kg   | 4.0   | 4.1   | <4.0                       | <4.0                      | <4.0                      | <4.0                       |
| Cadmium  | mg/kg   | 0,40  | <0,40   | <0,40                      | <0,40                     | <0,40                     | <0.40                      |
| Chromium   | mg/kg   | 1.0   | 9.5   | 2.6                        | 6.0                       | 3.4                       | 23                         |
| Copper   | mg/kg   | 1.0   | 11  | 13                         | 4,5                       | 8,1                       | 8.6                        |
| Mercury  |   | 0.10  | <0.10   | <0.10                      | <0.10                     | <0.10                     | <0.10                      |
| amandi.  | mg/kg   |   |   |                            |                           |                           |                            |
| Nickel   | mg/kg   | 1.0   | 2.4   | 2.3                        | 1.6                       | <1.0                      | 14                         |
| Lead   | mg/kg   | 1.0   | 20  | 670                        | 56                        | 48                        | 30                         |
| Zinc   | mg/kg   | 1,0   | 52  | 93                         | 100                       | 72                        | 3,3                        |
| Envirolab ID   | Units   | PQL   | PEH0448-10  | PEH0448-11                 | PEH0448-13                | PEH0448-15                | PEH0448-16                 |
| Your Reference   |   |   | TP5-0-0.1   | TP6-0-1.2                  | TP7-0-1.0                 | TP8-0.8-1.2               | TP9-0-1.0                  |
| Date Sampled   |   |   | 07/08/2023  | 07/08/2023                 | 07/06/2023                | 07/08/2023                | 07/08/2023                 |
| Arsenic  | mg/kg   | 4.0   | <4.0  | <4.0                       | 6.2                       | <4.0                      | 6.2                        |
| Cadmium  | mg/kg   | 0.40  | <0.40   | <0.40                      | <0,40                     | <0.40                     | <0.40                      |
| Chromium   | mg/kg   | 1.0   | 9.2   | 9.7                        | 16                        | 17                        | 25                         |
| Copper   | mg/kg   | 1.0   | 7.8   | 7.9                        | 6.0                       | 35                        | 18                         |
| Mercury  | mg/kg   | 0.10  | <0.10   | <0.10                      | <0.10                     | <0.10                     | <0.10                      |
| Nickel   | mg/kg   | 1,0   | 5,2   | 3,4                        | 1,7                       | 8,0                       | 2,2                        |
| Lead   | mg/kg   | 1.0   | 17  | 17                         | 10                        | 30                        | 46                         |
| Zinc   | mg/kg   | 1.0   | 9,4   | 59                         | 30                        | 2,6                       | 82                         |
| EDWA JANUARA   | VISTALIA -  | Description   | Un more alle  | BUCONA CONTROL             |                           |                           | WANTED TO A CHARLES        |
| Envirolab ID   | Units   | PQL   | PEH0448-18  | PEH0448-19                 | PEH0448-20                | PEH0448-23                | PEH0448-24                 |
| Your Reference   |   |   | TP10-0-0.1  | TP10-0.4-0.5               | TP11-0-1-0                | TP12-0-3.0                | TP14-0-0.8                 |
| Date Sampled   |   |   | 07/08/2023  | 07/08/2023                 | 07/08/2023                | 07/08/2023                | 07/08/2023                 |
| Arsenic  | mg/kg   | 4,0   | 4,7   | (NA)                       | <4.0                      | <4,0                      | <4.0                       |
| Cadmium  | mg/kg   | 0.40  | <0.40   | [NA]                       | <0.40                     | <0.40                     | <0.40                      |
|  |   |   |   | [NA]                       | 10                        | 9.3                       | 3.6                        |
| Chromium   | mg/kg   | 1.0   | 13  | 11,000,000                 | 10                        | -,***                     | ,540,                      |
| Chromium<br>Copper   | mg/kg<br>mg/kg  | 1.0   | 13<br>9,3   | [NA]                       | 7,2                       | 5.4                       | 9.0                        |
| ter promise  | 30289009  | 172022  | 125000  | 2.1912                     | 100000                    | 1000                      | 13:00                      |
| Copper   | mg/kg   | 1,0   | 9,3   | [NA]                       | 7,2                       | 5.4                       | 9.0                        |
| Copper<br>Mercury  | mg/kg<br>mg/kg  | 1,0<br>0.10   | 9,3<br><0.10  | (MA)                       | 7.2<br><0.10              | 5,4<br><0.10              | 9,0<br><0,10               |
| Copper<br>Mercury<br>Nickel  | mg/kg<br>mg/kg<br>mg/kg   | 1.0<br>0.10<br>1.0  | 9,3<br><0.10<br>2,4   | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2,8       | 5.4<br><0.10<br>1,2       | 9,0<br><0.10<br>1,0        |
| Copper<br>Mercury<br>Nickel<br>Lead<br>Zinc  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                    | 1,0<br>0.10<br>1,0<br>1,0   | 9,3<br><0.10<br>2,4<br>20<br>130  | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                    | 1,0<br>0.10<br>1,0<br>1,0   | 9,3<br><0.10<br>2,4<br>20<br>130<br>PEH0448-26                                      | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper<br>Mercury<br>Nickel<br>Lead<br>Zinc  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                    | 1,0<br>0.10<br>1,0<br>1,0   | 9,3<br><0.10<br>2,4<br>20<br>130  | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled                                 | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>Units                           | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>PQL                                     | 9,3<br><0.10<br>2,4<br>20<br>130<br>PEH0448-26<br>QC1<br>07/08/2023                 | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic                         | mg/kg mg/kg mg/kg mg/kg Units                                       | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>PQL                                     | 9,3<br><0.10<br>2,4<br>20<br>130<br>PEH0448-26<br>QC1<br>07/08/2023                 | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic Cadmium                 | mg/kg mg/kg mg/kg mg/kg  Units                                      | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>1,0<br>1,0<br>4,0<br>4,0                | 9,3<br><0.10<br>2,4<br>20<br>130<br>PEH0448-26<br>QC1<br>07/08/2023<br>5.5<br><0.40 | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic Cadmium Chromium        | mg/kg mg/kg mg/kg mg/kg  Units  mg/kg mg/kg mg/kg                   | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>PQL<br>4,0<br>0,40<br>1,0               | 9,3 <0.10 2,4 20 130 PEH0448-26 QC1 07/08/2023 5.5 <0,40 17                         | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic Cadmium Chromium Copper | mg/kg mg/kg mg/kg mg/kg  Units  mg/kg mg/kg mg/kg  mg/kg            | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>1,0<br>1,0<br>PQL<br>4,0<br>0,40<br>1,0 | 9,3 <0.10 2,4 20 130  PEH0448-26 QC1 07/08/2023 5.5 <0,40 17 5.8                    | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic Cadmium Chromium Copper | mg/kg mg/kg mg/kg mg/kg mg/kg  Units  mg/kg mg/kg mg/kg mg/kg mg/kg | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>1,0<br>PQL<br>4,0<br>0,40<br>1,0<br>1,0 | 9,3 <0.10 2,4 20 130  PEH0448-26 QC1 07/08/2023 5.5 <0,40 17 5.8 <0,10              | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |
| Copper Mercury Nickel Lead Zinc Envirolab ID Your Reference Date Sampled Arsenic Cadmium Copper          | mg/kg mg/kg mg/kg mg/kg  Units  mg/kg mg/kg mg/kg  mg/kg            | 1,0<br>0,10<br>1,0<br>1,0<br>1,0<br>1,0<br>1,0<br>PQL<br>4,0<br>0,40<br>1,0 | 9,3 <0.10 2,4 20 130  PEH0448-26 QC1 07/08/2023 5.5 <0,40 17 5.8                    | [MA]<br>[MA]<br>[MA]       | 7.2<br><0.10<br>2.8<br>15 | 5,4<br><0.10<br>1,2<br>13 | 9,0<br><0.10<br>1,0<br>9,4 |

Your Reference:

MSG-2023-003

Revision: R-01

#### Inorganics - Moisture (Soil)

| Envirolab ID   | Units     | PQL      | PEH0448-01 | PEH0448-02   | PEH0448-04 | PEH0448-06  | PEH0448-08 |
|----------------|-----------|----------|------------|--------------|------------|-------------|------------|
| Your Reference |           |          | TP1-0-0,3  | TP1-0,3-0,45 | TP2-0-0,2  | TP3-0-0.5   | TP4-0-1.1  |
| Date Sampled   |           |          | 07/08/2023 | 07/08/2023   | 07/08/2023 | 07/08/2023  | 07/08/2023 |
| Moisture       | %         | 0,10     | 1<br>6     | 7.<br>4      | 2<br>8     | 12          | 19         |
| Envirolab ID   | Units     | PQL      | PEH0448-10 | PEH0448-11   | PEH0448-13 | PEH0448-15  | PEH0448-16 |
| Your Reference |           |          | TP5-0-0.1  | TP6-0-1.2    | TP7-0-1.0  | TP8-0.8-1.2 | TP9-0-1.0  |
| Date Sampled   |           |          | 07/08/2023 | 07/08/2023   | 07/08/2023 | 07/08/2023  | 07/08/2023 |
| Moisture       | %         | 0.10     | 5.         | 9.<br>6      | 1 2        | 20          | 9,6        |
| Envirolab ID   | Units     | PQL.     | PEH0448-18 | PEH0448-19   | PEH0448-20 | PEH0448=23  | PEH0448-24 |
| Your Reference | N-SS-N-SS | CO-CARD. | TP10-0-0-1 | TP10-0.4-0.5 | TP11-0-1-0 | TP12-0-3.0  | TP14-0-0.8 |
| Date Sampled   |           |          | 07/08/2023 | 07/08/2023   | 07/08/2023 | 07/08/2023  | 07/08/2023 |
| Moisture       | %         | 0.10     | 2 2        | 5            | 9,<br>6    | 6.6         | 8.7        |
| Envirolab ID   | Units     | PQL      | PEH0448-26 |              |            |             |            |
| Your Reference |           |          | QC1        |              |            |             |            |
| Date Sampled   |           |          | 07/08/2023 |              |            |             |            |
| Moisture       | %         | 0,10     |            |              |            |             |            |

Your Reference:

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#### **Method Summary**

| Method ID      | Methodology Summary   |
|----------------|---|
| INORG-008      | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.   |
| METALS-020     | Determination of various metals by ICP-OES.   |
| METALS-021     | Determination of Mercury by Cold Vapour AAS.  |
| ORG-020        | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40). |
| ORG-022_OC     | Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.   |
| ORG-023_F1_TOT | Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.  |

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#### **Result Definitions**

| Identifier | Description   |
|------------|---|
| NR         | Not reported  |
| NEPM       | National Environment Protection Measure   |
| NS         | Not specified   |
| LCS        | Laboratory Control Sample   |
| RPD        | Relative Percent Difference   |
| >          | Greater than  |
| <          | Less than   |
| PQL        | Practical Quantitation Limit  |
| INS        | Insufficient sample for this test   |
| NA         | Test not required   |
| NT         | Not tested  |
| DOL        | Samples rejected due to particulate overload (air filters only)   |
| RFD        | Samples rejected due to filter damage (air filters only)  |
| RUD        | Samples rejected due to uneven deposition (air filters only)  |
| ##         | Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments |

#### **Quality Control Definitions**

#### Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

#### Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

#### LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

#### **Matrix Spike**

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

#### **Duplicate**

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

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#### **Laboratory Acceptance Criteria**

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

#### **Miscellaneous Information**

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10\*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Your Reference: MSG-2023-003

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#### **Data Quality Assessment Summary PEH0448**

#### Client Details

| Client         | Aurora Environmental (Perth) Pty Ltd |  |
|----------------|--------------------------------------|--|
| Your Reference | MSG-2023-003                         |  |
| Date Issued    | 22/09/2023                           |  |
|                |                                      |  |

#### **Recommended Holding Time Compliance**

Recommended holding time exceedances exist - See detailed list below

#### **Quality Control and QC Frequency**

| QC Туре                                   | Compliant | Details   |  |
|---|-----------|---|--|
| Blank                                     | Yes       | No Outliers   |  |
| LCS                                       | Yes       | No Outliers   |  |
| Duplicates                                | No        | Duplicate Outliers Exist - See detailed list below    |  |
| Matrix Spike                              | No        | Matrix Spike Outliers Exist - See detailed list below |  |
| Surrogates / Extracted Internal Standards | Yes       | No Outliers   |  |
| QC Frequency                              | Yes       | No Outliers   |  |

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

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#### **Data Quality Assessment Summary PEH0448**

#### **Recommended Holding Time Compliance**

| Analysis           | Sample Number(s)                                     | Date Sampled | Date Extracted | Date Analysed | Compliant |
|--------------------|--|--------------|----------------|---------------|-----------|
| vtrh&mbtexn   Soil | 1-2  | 07/08/2023   | 09/08/2023     | 09/08/2023    | Yes       |
|                    | 4, 6, 8, 10-11, 13, 15-16                            | 07/08/2023   | 09/08/2023     | 15/08/2023    | Yes       |
|                    | 18, 20, 23-24, 26                                    | 07/08/2023   | 09/08/2023     | 16/08/2023    | Yes       |
| sTRH   Soil        | 1-2  | 07/08/2023   | 09/08/2023     | 09/08/2023    | Yes       |
|                    | 4, 6, 8, 10-11, 13, 15-16, 18,<br>20, 23-24, 26      | 07/08/2023   | 09/08/2023     | 15/08/2023    | Yes       |
| OCP   Soil         | 1-2  | 07/08/2023   | 09/08/2023     | 10/08/2023    | Yes       |
| - 1                | 4, 6, 8, 10-11, 13, 15-16, 18,<br>20, 23-24, 26      | 07/08/2023   | 09/08/2023     | 15/08/2023    | Yes       |
| Aetals   Soil      | 1-2, 4, 6, 8, 10-11, 13, 15-16,<br>18, 20, 23-24, 26 | 07/08/2023   | 09/08/2023     | 22/08/2023    | Yes       |
|                    | 19   | 07/08/2023   | 20/09/2023     | 22/09/2023    | Yes       |
| Metalis-Hg   Soil  | 1=2, 4, 6, 8, 10=11, 13, 15=16,<br>18, 20, 23=24, 26 | 07/08/2023   | 09/08/2023     | 22/08/2023    | Yes       |
| Moisture   Soil    | 1-2, 4, 6, 8, 10-11, 13, 15-16,<br>18, 20, 23-24, 26 | 07/08/2023   | 09/08/2023     | 10/08/2023    | Yes       |
|                    | 19   | 07/08/2023   | 21/09/2023     | 22/09/2023    | No        |

#### **Outliers: Duplicates**

#### METALS-020 | Acid Extractable Metals (Soil) | Batch BEH0996

| Sample ID  | Duplicate ID | Analyte | % Limits | RPD    |
|------------|--------------|---------|----------|--------|
| PEH0448-15 | DUP2         | Copper  | 40,00    | 131[3] |
| PEH0448-15 | DUP4         | Copper  | 40,00    | 123[3] |

#### **Outliers: Matrix Spike**

#### METALS-020 | Acid Extractable Metals (Soil) | Batch BEH0996

| Sample ID  | Analyte | % Limits | % Recovery |
|------------|---------|----------|------------|
| PEH0448-02 | Lead    | 70 - 130 | ##[1]      |
|            |         |          |            |
|            |         |          |            |
|            |         |          |            |
|            |         |          |            |
|            |         |          |            |

Your Reference: Revision: R-01 MSG-2023-003

#### **Quality Control PEH0448**

#### ORG-023\_F1\_TOT| Volatile TRH and BTEX (Soil) | Batch BEH0997

| Analyte                             | Units | PQL  | Blank | DUP1<br>PEH0448-01<br>Samp   QC   RPD % | <b>DUP2</b><br>PEH0448*16<br>Samp   QC   RPO % | LCS %  | <b>Spike %</b><br>PEH0448 <b>-</b> 02 |
|-------------------------------------|-------|------|-------|---|--|--------|---------------------------------------|
| TRH C6-C9                           | mg/kg | 25   | <25   | <25 <25 [NA]                            | <25 <25 [NA]                                   | 118    | 105                                   |
| TRH C5-C10                          | mg/kg | 25   | <25   | <25   <25   [NA]                        | <25   <25   [NA]                               | 117    | 104                                   |
| TRH C5-C10 less BTEX (F1)           | mg/kg | 25   | <25   | <25   <25   [NA]                        | <25   <25   [NA]                               | [797.] | Davi                                  |
| Methyl tert butyl ether (MTBE)      | mg/kg | 0,50 | <0.50 | - 10                                    |  | [MV]   | [NA]                                  |
| Benzene                             | mg/kg | 0.20 | <0.20 | <0.20   <0.20 [NA]                      | <0.20   <0.20   [NA]                           | 121    | 108                                   |
| Toluene                             | mg/kg | 0,50 | <0.50 | <0.50   <0.50   [NA]                    | <0.50   <0.50   [NA]                           | 125    | 111                                   |
| Ethy <b>l</b> benzene               | mg/kg | 1.0  | <1.0  | <1.0 <1.0 [NA]                          | <1.0 <1.0 [NA]                                 | 128    | 114                                   |
| meta+para Xylene                    | mg/kg | 2,0  | <2.0  | <2,0   <2,0   [NA]                      | <2.0   <2.0   [NA]                             | 113    | 102                                   |
| ortho-Xy <b>l</b> ene               | mg/kg | 1.0  | <1.0  | <1.0 <1.0 [NA]                          | <1.0   <1.0   [NA]                             | 126    | 115                                   |
| Total Xylene                        | mg/kg | 3,0  | <3,0  | <3,0   <3,0   [NA]                      | [AA] 0,E> 0,E>                                 | (FEE)  | 1945                                  |
| Naphthalene (value used in F2 calc) | mg/kg | 1.0  | <1.0  | <1,0 <1,0 [NA]                          | <1.0 <1.0 [NA]                                 | D40    | [745]                                 |
| Surrogate aaa-Triffuorotokiene      | 56    |      | 81.5  | 90.8 [ 79.9                             | 118/112  | 100    | 85.4                                  |

#### ORG-020 | Semi-volatile TRH (Soil) | Batch BEH0998

|                       |             |       |                  | DUP1                   | DUP2               | LCS %      | Spike % |
|-----------------------|-------------|-------|------------------|------------------------|--------------------|------------|---------|
| Analyte               | Units PQL B | Blank | Blank PEH0448-01 | PEH0448-18             |                    | PEH0448-02 |         |
|                       |             |       |                  | Somp   QC   RPD %      | Samp   QC   RPD %  |            |         |
| TRH C10-C14           | mg/kg       | 50    | <50              | <50   <50   [NA]       | <50 <50 [NA] [2]   | 85.8       | 82.9    |
| TRH CIS-C28           | mg/kg       | 100   | <100             | <100   <100   [NA] [2] | <100 <100 [NA] [2] | 88,7       | 94,2    |
| TRH C29-C36           | mg/kg       | 100   | <100             | <100   <100   (NA)     | <100   <100   [NA] | 87.1       | 133     |
| TRH >C10-C16          | mg/kg       | 50    | <50              | <50   <50   [NA]       | <50 <50 [NA] [2]   | 85.6       | 82,3    |
| TRH >C15-C34 (F3)     | mg/kg       | 100   | <100             | <100   <100   [NA] [2] | <100   <100   [NA] | 78,6       | 87,5    |
| TRH >C34-C40 (F4)     | mg/kg       | 100   | <100             | <100   <100   [NA]     | <100   <100   [NA] | 93.0       | 121     |
| Surrogate o-Terphenyl | 96          |       | 97.5             | 97.4/96.6              | 106   102          | 76.6       | 78.6    |

#### ORG-022\_OC | Organochlorine Pesticides (Soil) | Batch BEH0998

| Analyte                     | Units | PQL  | B <b>l</b> ank | DUP1<br>PEH0448-01<br>Samp   QC   RPD % | DUP2<br>PEH0448-18<br>Samp   QC   RPD % | LCS %  | <b>Spike %</b> PEH0448-02 |
|-----------------------------|-------|------|----------------|---|---|--------|---------------------------|
| alpha-6HC                   | mg/kg | 0.10 | < 0.10         | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 98.0   | 93.2                      |
| Hexachlorobenzene           | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | [346]  | [945]                     |
| beta-BHC                    | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 92,3   | 85.1                      |
| gamma-BHC                   | mg/kg | 0,10 | <0,10          | <0.10 <0.10 [NA]                        | <0,10   <0,10   [NA]                    | [PWA]  | [AA]                      |
| delta-BHC                   | mg/kg | 0,10 | < 0.10         | <0.10 <0.10 [NA]                        | <0.10   <0.10   [NA]                    | (764)  | [NA]                      |
| Heptachior                  | mg/kg | 0,10 | <0,10          | <0.10   <0.10   [NA]                    | <0,10   <0,10   [NA]                    | 97,1   | 98.4                      |
| Aldrin                      | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 105    | 96.8                      |
| Heptachior epoxide          | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 97.0   | 93.7                      |
| trans-Chlordane             | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 7947   | 20112                     |
| cis-Chlordane               | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | ENVI   | [NA]                      |
| Endosulfan I                | mg/kg | 0,10 | <0.10          | <0.10 <0.10 [NA]                        | <0.10   <0.10   [NA]                    | (hiv.) | \$84A7                    |
| 4,4-DDE                     | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 96.9   | 93.9                      |
| Dieldrin                    | mg/kg | 0,10 | <0,10          | 0,300 0,381 23,8                        | 0,307 0,231 28,2                        | 99.0   | 101                       |
| Endrin                      | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 95.9   | 97.6                      |
| 1/1-000                     | mg/kg | 0,10 | <b>-+0y10</b>  |   | <0,10   <0,10   [NA]                    | 108    | 95/9                      |
| Endosulfan II               | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | [766]  | [NA]                      |
| Endrin aldehyde             | mg/kg | 0,10 | <0,10          | <0.10   <0.10   [NA]                    | <0,10   <0,10   [NA]                    | [NA]   | {DW2}                     |
| 4,4'-DDT                    | mg/kg | 0,10 | <0.10          | <0.10   <0.10 [NA]                      | <0.10   <0.10   [NA]                    | [94A]  | [MA]                      |
| Endosulitan sulitate        | mg/kg | 0.10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | 94.4   | 98.6                      |
| Endrin ketone               | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0,10   <0,10   [NA]                    | [707]  | [140]                     |
| Methoxychlor                | mg/kg | 0,10 | <0.10          | <0.10   <0.10   [NA]                    | <0.10   <0.10   [NA]                    | [N/]   | TM/T                      |
| Mirex                       | mg/kg | 0,10 | <0.10          | <0.10 <0.10 [NA]                        | <0,10   <0,10   [NA]                    | [740.] | [NA]                      |
| Surrogate 2-Chlorophenol-D4 | %     |      | 95.5           | 89.5   88.5                             | 93.1 / 93.5                             | 93.6   | 93.3                      |

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## METALS-020 | Acid Extractable Metals (Soil) | Batch BEH0996

| rsenic<br>admium<br>hromium<br>opper<br>esd |                          |            |              |                           |              |                      |                      | Samp   QC   1                                 | RPD %             |            | Samp                         | QC   RPD                     | %                     |                      |              |           |              |     |
|---|--------------------------|------------|--------------|---------------------------|--------------|----------------------|----------------------|---|-------------------|------------|------------------------------|------------------------------|-----------------------|----------------------|--------------|-----------|--------------|-----|
| hromium<br>opper                            |                          |            |              | mg/kg                     | 1 1          | 4,0                  | <4.0                 | 4,10 4,06                                     | 0,905             |            | <4.0                         | <4,0   (N                    | AJ                    | 9                    | 7.7          |           | 103          |     |
| opper                                       |                          |            |              | mg/kg                     |              | 0,40                 | < 0.40               | <0.40   <0.40                                 | [NA]              |            | <0.40                        | <0.40  [                     | NA]                   | 9                    | 8.1          |           | 100          |     |
| 202   |                          |            |              | mg/kg                     |              | 1.0                  | <1.0                 | 9.58 11.5                                     | 18.5              |            | 16.8                         | 17.9 6.2                     | 27                    | 9                    | B.3          |           | 100          |     |
| her   |                          |            |              | mg/kg                     |              | 1.0                  | <1.0                 | 10,8 8,78                                     | 21.1              |            | 35,1 7                       | 32   131                     | [3]                   | 1                    | 01           |           | 105          |     |
| AUG.  |                          |            |              | mg/kg                     |              | 1.0                  | <1.0                 | 19.9 21.0                                     | 5.56              |            | 30.2                         | 29.0 3.9                     | 93                    | 9                    | 8.7          |           | <b>**[1]</b> |     |
| lenoury                                     |                          |            |              | mg/kg                     |              | 0,10                 | <0.10                | <0.10 <0.10                                   | [NA]              |            | <0.10                        | <0,10                        | NA]                   | 8                    | 1.6          |           | 90.8         |     |
| ickel                                       |                          |            |              | mg/kg                     |              | 1.0                  | <1.0                 | 2.37 2.62                                     | 10.2              |            | 7.98                         | 9.51   17                    | .5                    | 9                    | 9.3          |           | 102          |     |
| nc  |                          |            |              | mg/kg                     | - 1          | 1,0                  | <1,0                 | 51,9 72,6                                     |                   |            | -                            | 2,54 3,                      |                       | 9                    | 9.3          | 3         | 87,0         |     |
| nalyte                                      |                          |            |              | Units                     | ( )          | PQL                  | Blank                | PEH0448                                       | -01               |            | PEH                          | OUP4<br>10448-15             |                       | LCS                  | %            |           |              |     |
|   |                          |            |              | and the second            |              | 4                    |                      | Samp   QC   1                                 |                   |            |                              | QC   RPD                     |                       |                      | IA/1 I Salan |           |              |     |
| CHAIN                                       | OF CUSTO                 | DDY        |              | - mg/kg                   |              |                      |                      | 4,10 4.06                                     | 1                 |            |                              | <4.0   [N                    | A                     |                      | *            |           |              |     |
| Dilhom H                                    | louse, 2 Bulwer          | CONTRACTOR | WA 600       | mg/kg                     |              | 0,4                  |                      | <0.40   <0.40                                 |                   |            |                              | <0.40   [                    | 1~                    | 1016                 | X            |           |              |     |
| rortiums) 92                                | 27 2600                  |            |              |                           | F: (08) 9227 | 2699                 |                      | 9.58 11.3                                     |                   |            |                              | 23.7 34                      | 8.800                 | ronment:             |              | _         | Sheet 1 or   | 1   |
| Email res                                   | ASG-2023-003<br>ults to: |            |              | mg/kg                     | fo@aurorae   | nyronme              | ntsl.com.au          | 10.8 9.79                                     |                   |            | 100                          | Lab / L                      | ab Quote              | No.:                 | 6.0          |           |              | _   |
| ed  |                          |            |              | mg/kg                     |              | 1                    |                      | 19.9 19.4                                     |                   |            |                              | 4:3139                       | .1                    | - 0                  | 26]          |           |              |     |
| TOTY  TIME  COMMEN                          | delavale@@au             | roraenvii  | ronmental    | mg/kg<br>.com.au<br>mg/kg | tim davie    | 0,1<br>s⊕aurora<br>T | ervironmental.com    | <0.10 <0.10<br>n.au, brad.dermod<br>2.37 3.02 | Searca's          | environmer | <0,10<br>htal.com.au<br>7.98 | 0.10 [<br>Purcha<br>0.04 7.0 | NA]<br>se Order<br>19 | No.:-                | P.)          |           |              | 3   |
| nc  |                          | id Ex      | ctuact       | mg/kg                     | 4otale       | 1<br>(Soil           | )   Datoh            | 51,9 55,1                                     | 7,91              |            | 2,64                         | 76 4,4                       | 18                    | Hopey metals<br>REDA | (4.)         | THM/BTECH | Hold         | 288 |
| Cal   | b Sample to              | -          | Aurora Sar   | apie to                   |              |                      | )   Batch            | Date  | -                 | containe   |                              | -                            | _                     | 12.02                | -            |           |              | -   |
|   | 1                        | 1          | 81-0.        |                           | _ 5          |                      | 1                    | 8.23 DUP                                      |                   | Jar        |                              | JP2                          |                       | 7hcs                 | 96           |           | ce %         | +   |
| nalyte                                      | L                        | -          |              | 3-unlis                   |              | PQL                  | Blank                | BE12154-D                                     | The second second | -          | BEI21                        | -                            | _                     | -1                   | -            | A BEIZE   | 64-MS1#      | +   |
|   | 3                        | -          |              | 5-0.5                     |              | -                    |                      | Samp   QC   1                                 | 1                 | +          |                              | C I RPD                      |                       |                      | -            | +         | X            | +   |
| ¢   | 4                        |            |              | -01929                    |              | 1.0                  | <1.0                 | 1.37 1.19 1                                   | 1.1 [2]           | -          | 1.3/ 1.                      | 7 15.1                       | [2]                   | -1.                  | 10           | +         | 105          | +   |
| he QC report                                | ted was not spe          | original   | part of this | workinger                 | but formed   | pert of the          | ne QC process bab    | ch.   | -                 | -1-        |                              | -                            |                       | +                    | +            | +-        | X            | +   |
| IOBG-                                       | Selton                   | 1          | 2-0-         | 0.5                       | ura /Sr      | 1                    | Batch BE             | H1995   |                   |            |                              |                              |                       |                      |              |           |              |     |
| O.C.  | John I vino              | 717        | 3 = 0.5      | -1:0                      | 10 (50       | ,,,,                 | Datell DL            | 119333  |                   |            |                              |                              |                       | _                    | _            | 1         | X            | _   |
|   | 0                        | TH         | 4-0          | -1.1                      |              |                      |                      | DUP1  |                   |            | D                            | UP2                          |                       | LCS                  | %            |           |              |     |
| nalyte                                      | 9                        | Th         | 4-1.1        | _   Ubits                 |              | PQL                  | Blank                | PEH0448                                       | Marie Committee   |            | 45,001000                    | 448-16                       |                       |                      |              |           | X            |     |
|   | 10                       | T          | 5-0          | 1.0-1                     |              |                      |                      | Semp [QC]                                     | 10000             |            |                              | CIRPO                        | Care Co               |                      |              |           |              |     |
| sture                                       | U                        | TP         |              | - 1· 2°                   |              | 0.1                  |                      | 15.5 14.3                                     | 8.39              |            | 9.63                         | 934 3                        | )6                    | l D                  | 46           |           |              |     |
|   | (7                       | T          | 16-1         | 21.3                      |              |                      |                      |   |                   |            |                              |                              |                       |                      |              |           | X            |     |
| IUKG-U                                      | OP8   Ino                | rgar       | CS O         | Moher                     | ire (So      | 1 (10                | Batch BE             | 14336   |                   |            |                              |                              |                       |                      |              |           |              |     |
|   | 14                       | TP         | 7-1.0        | 1-1.5                     |              |                      |                      | DUP1  |                   | 0          |                              |                              |                       | LCS                  | 9/0          |           | X            |     |
| nalyte                                      | 15                       | TP         | 8-0.         | 4-Units                   |              | PQL                  | Blank                | PEH0448                                       | -19               |            |                              |                              | 1                     |                      |              |           |              |     |
|   | 16                       |            | 7-0-         |                           |              |                      |                      | Samp [ QC ] (                                 | 10.750            |            |                              |                              |                       |                      |              |           |              |     |
| istere                                      | 17                       | 11         | 9-1.0        | -1.5                      |              | 0.1                  |                      | 19.9 20.2                                     | .74               |            |                              |                              |                       | 10                   | 10           |           | X            |     |
|   | 18                       |            | 10-0         |                           |              |                      |                      |   |                   |            |                              |                              |                       |                      |              |           |              |     |
|   | 19                       |            |              | .4-0.5                    |              |                      |                      |   |                   |            |                              |                              |                       |                      |              |           | X            |     |
| Comm  | ents                     | 178        |              | 1.0                       | [al]         |                      |                      |   |                   |            |                              |                              |                       |                      |              |           |              |     |
| 100   | 23                       | 18         | 11-1-11      | 0-1-5                     |              |                      |                      |   |                   | 1          |                              |                              |                       |                      |              |           | X            |     |
|   | 11                       |            |              | 0-35                      |              |                      | ×.                   |   |                   |            |                              |                              |                       |                      |              |           | X            |     |
|   | 23                       | 18         | 12 -0        | -3.0                      |              | 1.                   |                      |   | 88.022.74         |            |                              | 2000                         |                       |                      |              | 1         |              |     |
|   | 24                       | Spike)     | LLV-         | O O                       | routine aco  | eptance              | enteria (70-130      | (%) this may be o                             | the to si         | uspected n | en-heme                      | geneity                      | and/or                | +                    | _            |           |              |     |
|   | 15                       | 11 (318) 2 | THE VEHICLE  | 4 - (·3                   | . However    | an acc               | eptable recovery     | was achieved fo                               | the LC            | -          |                              |                              |                       |                      | -            |           | X            | +   |
| , —   | 26                       |            | 19-0         | 3-(-)                     |              | 11                   | ine let              | ratory acceptano                              | have              | لاس        | one er b                     | h                            | 1/                    | 1                    | +            | 1/-       |              | +   |
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|   | ndition Upon Re          |            |              |                           |              |                      | n endan              | 100   | Lane.             | 1-8-2      | 5                            |                              | d by Q                | M                    |              |           |              | Dat |

Your Reference:

MSG-2023-003

precision.

Revision: R-01

Certificate of Analysis Generated: 22/09/2023 19:19:52

Could we please after the CoC to place all of the deeper samples on hold and not analyse them? The following samples will need to be placed on hold:

TP1-0.45-0.5 TP2-0.2-0.5

TP3-0.5-1.0

FP4-1.1-1.6

TP6-1.2-1.3 TP7-1-1.5

TP9-1.0-1.5 TP10-0.4-0.5

TP11-1.0-1.5

TP12-3.0-3.5

FP14-0.8-1.3

Thanks,



Dilhorn House, 2 Bulwer St, Perth 6000

T (08) 9227 2600 F (08) 9227 2699

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tim.davies@auroraenvironmental.com.au

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#### Genevieve Massam

From:

Sent:

Monday, / August 2023 7:56 PM

To:

Cc:

Subject:

Ke: Jar missing from today's samples

Follow Up Flag:

Follow up

Flag Status:

Flagged

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Sorry my mistake, there isn't a jar missing. It's an error on the coc.

Regards

Tim

## Get Outlook for iOS

From: Genevieve Massam < GMassam@mpl.com.au>

Sent: Monday, August 7, 2023 6:02:15 PM

To: Tim Delavale <tim.delavale@auroraenvironmental.com.au>; Tim Davies

<tim.davies@auroraenvironmental.com.au>; brad.dermody <brad.dermody@auroraenvironmental.com.au>

Cc: Meredith Conroy < MConroy@mpl.com.au>

Subject: Jar missing from today's samples

Good evening team,

We've received samples with the attached CoC this afternoon. We're missing jar TP3-0-0.2- should we have received this?

Thanks!

Kind Regards,

Customer Service | MPL Laboratories

Great Science. Great Service.

16-18 Hayden Court Myaree WA 6154 | PO Box 4023 Myaree BC, WA 6960

W www.mpl.com.au



Contaminated Land ● Trade Waste ● OHS ● Drinking Water ● Air Quality ● Asbestos ● Methamphetamines & Other Drug Residue . Acid Sulphate So. Emerging Contaminants . Foren:







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Latest Update: We're attending SETAC Australasia, 7-11 Aug, Townsville QLD. If you're attending, we're looking



# Envirolab Services (WA) Pty Ltd trading as MPL Laboratories ABN 53 140 099 207

16-18 Hayden Court Myaree WA 6154 ph +61 8 9317 2505 fax +61 8 9317 4163

lab@mpl.com.au

www.mpl.com.au

## **Certificate of Analysis PEH0810**

#### **Client Details**

**Client** Aurora Environmental (Perth) Pty Ltd

Contact

**Address** 2 Bulwer St, PERTH, WA, 6000

#### **Sample Details**

Your Reference DVW2020-005\_UF7 (MSG2023\_003)

Number of Samples31 SoilDate Instructions Received19/09/2023Date Samples Registered08/08/2023

## **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

## **Report Details**

Date Results Requested by 21/09/2023

**Date of Reissue** 21/09/2023 - This report supercedes previous report, see amendment history for details

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Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with  $\ast$ .

#### **Authorisation Details**

Results Approved By

**Laboratory Manager** 



Your Reference: Revision: R-01 DVW2020-005\_UF7 (MSG2023\_003)

Certificate of Analysis Generated: 21/09/2023 20:45:26

# **Report Amendment History**

| Revision | Reason for Amendment                  |
|----------|---------------------------------------|
|          |                                       |
| R-01     | Additional analysis requested 19-9-23 |
|          |                                       |
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| Samp | les | in | this | Re | port |
|------|-----|----|------|----|------|
|------|-----|----|------|----|------|

| Envirotab ID | Sample ID    | Matrix | Date Sampled | Date Received |
|--------------|--------------|--------|--------------|---------------|
| PEH0810-01   | TP12-0-3,0   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-02   | TP12-3,0-3,5 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-03   | TP13-0,0-0,8 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-04   | TP13-0,8-1,3 | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-05   | TP15-0.8-1.3 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-06   | TP16-0-0.8   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-07   | TP16-0.8-1.3 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-08   | TP17-0-0.7   | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-09   | TP17-0.7-1.2 | Sall   | 08/08/2023   | 16/08/2023    |
| PEH0810-10   | TP18-0.0-1.2 | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-11   | TP18-1.2-1.7 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-12   | TP19-0-1.2   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-13   | TP19-1.2-1.7 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-14   | TP20-0-2,5   | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-15   | TP20A-0-2.5  | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-16   | TP20-3-3,2   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-17   | TP20A-3-3.2  | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-18   | TP21-0.1-1.1 | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-19   | TP22-0-0.6   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-20   | TP22-0.6-1.1 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-21   | TP23-0.0-0.4 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-22   | TP23-0.4-0.7 | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-23   | TP24-0-1.4   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-24   | TP24-1,4-1.9 | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-25   | TP25-0.3-0.8 | Soll   | 08/08/2023   | 16/08/2023    |
| PEH0810-26   | TP25-0-0.3   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-27   | TP30-0-0,1   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-28   | TP31-0-0,5   | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-29   | TP4-0,1-1,1  | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-30   | TP4-1_1-1.6  | Soil   | 08/08/2023   | 16/08/2023    |
| PEH0810-31   | TP5-0,1-0,5  | Soil   | 08/08/2023   | 16/08/2023    |

## Volatile TRH and BTEX (Soil)

| Envirolab ID<br>Your Reference      | Units     | PQL  | PEH0810-01<br>TP12-0-3.0 | PEH0810-03<br>TP13-0.0-0.8 | PEH0810-06<br>TP16-0-0.8 | PEH0810-08<br>TP17-0-0.7 | PEH0810-10<br>TP18-0.0-1. |
|-------------------------------------|-----------|------|--------------------------|----------------------------|--------------------------|--------------------------|---------------------------|
| Date Samp <b>l</b> ed               |           |      | 08/08/2023               | 08/08/2023                 | 08/08/2023               | 08/08/2023               | 08/08/2023                |
| TRH C6-C9                           | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| TRH C6-C10                          | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| TRH C6-C10 less BTEX (F1)           | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| Methyl tert butyl ether (MTBE)      | mg/kg     | 0.50 | <0.50                    | <0.50                      | <0.50                    | <0.50                    | <0.50                     |
| Benzene                             | mg/kg     | 0.20 | <0.20                    | <0.20                      | <0.20                    | <0,20                    | <0.20                     |
| Toluene                             | mg/kg     | 0.50 | <0.50                    | <0.50                      | <0.50                    | <0.50                    | <0.50                     |
| Ethylbenzene                        | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1.0                     | <1.0                      |
| meta+para Xylene                    | mg/kg     | 2.0  | <2.0                     | <2.0                       | <2,0                     | <2.0                     | <2.0                      |
| ortho-Xylene                        | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1.0                     | <1.0                      |
| Total Xylene                        | mg/kg     | 3.0  | <3.0                     | <3.0                       | <3.0                     | <3.0                     | <3.0                      |
| Naphthalene (value used in F2 calc) | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1.0                     | <1.0                      |
| Surrogate ava-Trifluorotoluene      | %         |      | 105                      |                            | 119                      | 110                      | 101                       |
| Envirolab ID                        | Units     | PQL  | PEH0810-12               | PEH0810-14                 | PEH0810-18               | PEH0810-19               | PEH0810-21                |
| Your Reference                      |           | -    | TP19-0-1.2               | TP20-0-2.5                 | TP21-0.1-1.1             | TP22-0-0.6               | TP23-0.0-0.               |
| Date Sampled                        |           |      | 08/08/2023               | 08/08/2023                 | 08/08/2023               | 08/08/2023               | 08/08/2023                |
| TRH C6-C9                           | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| TRH C6-C10                          | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| TRH C6-C10 less BTEX (F1)           | mg/kg     | 25   | <25                      | <25                        | <25                      | <25                      | <25                       |
| Methyl tert butyl ether (MTBE)      | mg/kg     | 0,50 | <0,50                    | <0,50                      | <0.50                    | <0,50                    | <0,50                     |
| Benzene                             | mg/kg     | 0.20 | <0.20                    | <0.20                      | <0.20                    | <0.20                    | <0.20                     |
| Toluene                             | mg/kg     | 0.50 | <0.50                    | <0.50                      | <0.50                    | <0.50                    | <0.50                     |
| Ethylbenzene                        | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1.0                     | <1.0                      |
| meta+para Xylene                    | mg/kg     | 2.0  | <2,0                     | <2.0                       | <2.0                     | <2.0                     | <2,0                      |
| ortho-Xylene                        | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1,0                     | <1.0                      |
| Total Xylene                        | mg/kg     | 3.0  | <3,0                     | <3.0                       | <3.0                     | <3.0                     | <3.0                      |
| Naphthalene (value used in F2 calc) | mg/kg     | 1.0  | <1.0                     | <1.0                       | <1.0                     | <1.0                     | <1.0                      |
| Surrogate aaa-Trifluorotoluene      | %         |      | 114                      | 102                        |                          | 104                      | 107                       |
| Envirolab ID                        | Units     | PQL  | PEH0810-23               | PEH0810-26                 | PEH0810-27               |                          |                           |
| Your Reference                      | - 3410139 |      | TP24-0-1.4               | TP25-0-0.3                 | TP30-0-0.1               |                          |                           |
| Date Sampled                        |           |      | 08/08/2023               | 08/08/2023                 | 08/08/2023               |                          |                           |
| TRH C6-C9                           | mg/kg     | 25   | <25                      | <25                        | <25                      |                          |                           |
| TRH C6-C10                          | mg/kg     | 25   | <25                      | <25                        | <25                      |                          |                           |
| TRH C6-C10 less BTEX (F1)           | mg/kg     | 25   | <25                      | <25                        | <25                      |                          |                           |
| Methyl tert butyl ether (MTBE)      | mg/kg     | 0.50 | <0.50                    | <0.50                      | <0,50                    |                          |                           |
| Benzene                             | mg/kg     | 0.20 | <0.20                    | <0,20                      | <0.20                    |                          |                           |
| Toluene                             | mg/kg     | 0.50 | <0.50                    | <0.50                      | <0.50                    |                          |                           |
| Ethylbenzene                        | mg/kg     | 1.0  | <1,0                     | <1,0                       | <1.0                     |                          |                           |
| meta+para Xylene                    | mg/kg     | 2.0  | <2.0                     | <2.0                       | <2.0                     |                          |                           |
| ortho-Xylene                        | mg/kg     | 1.0  | <1,0                     | <1.0                       | <1.0                     |                          |                           |
| Total Xylene                        | mg/kg     | 3.0  | <3.0                     | <3.0                       | <3.0                     |                          |                           |
| Naphthalene (value used in F2 calc) | mg/kg     | 1,0  | <1,0                     | <1,0                       | <1.0                     |                          |                           |
|                                     |           |      |                          |                            |                          |                          |                           |

# Semi-volatile TRH (Soil)

| four Reference<br>Date Samp <b>l</b> ed  | Units   | PQL   | PEH0810-01  | PEH0810-03   | PEH0810-06   | PEH0810-08 | PEH0810-10   |
|--|---|-------|-------------|--------------|--------------|------------|--------------|
| pate Sampled   |   |       | TP12-0-3.0  | TP13-0.0-0.8 | TP16-0-0.8   | TP17-0-0.7 | TP18-0.0-1.2 |
| SPECIFICAL PROPERTY.   | - 1/0   | 27424 | 08/08/2023  | 08/08/2023   | 08/08/2023   | 08/08/2023 | 08/08/2023   |
| TRH C10-C14  | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH C15-C28  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| TRH C29-C36  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| Total +ve TRH C10-C36  | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C10-C16   | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C10-C16 less Naphthalene<br>F2  | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C16-C34 (F3)  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| TRH >C34-C40 (F4)  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| Total +ve TRH >C10-C40   | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
|  | 11 11 TO 12 | 30    |             |              |              |            |              |
| Surrogate o-Terphenyl  | %   |       | 92,4        | 92.1         | 93.7         | 94.7       | 96.0         |
| Envirolab ID   | Units   | PQL   | PEH0810-12  | PEH0810-14   | PEH0810-18   | PEH0810-19 | PEH0810-21   |
| Your Reference   |   |       | TP19-0-1.2  | TP20-0-2.5   | TP21-0.1-1.1 | TP22-0-0.6 | TP23-0.0-0.4 |
| Date Sampled   |   |       | 08/08/2023  | 08/08/2023   | 08/08/2023   | 08/08/2023 | 08/08/2023   |
| TRH C10-C14  | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH C15-C28  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| TRH C29-C36  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| Total +ve TRH C10-C36  | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C10-C16   | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C10-C16 less Naphthallene<br>F2   | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| TRH >C16-C34 (F3)  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| TRH >C34-C40 (F4)  | mg/kg   | 100   | <100        | <100         | <100         | <100       | <100         |
| Total +ve TRH >C10-C40   | mg/kg   | 50    | <50         | <50          | <50          | <50        | <50          |
| Surragate a-Terphenyl  | %   |       | 93,6        | 89.3         | 97.5         | 91.4       | 97.1         |
| Envirolab ID   | Units   | PQL   | PEH0810-23  | PEH0810-26   | PEH0810-27   |            |              |
| Your Reference   |   | 75    | TP24-0-1.4  | TP25-0-0,3   | TP30-0-0.1   |            |              |
| Date Sampled   |   |       | 08/08/2023  | 08/08/2023   | 08/08/2023   |            |              |
| TRH C10-C14  | mg/kg   | 50    | <50         | <50          | <50          |            |              |
| TRH C15-C28  | mg/kg   | 100   | <100        | <100         | <100         |            |              |
|  | mg/kg   | 100   | <100        | <100         | <100         |            |              |
| TRH C29-C36  | mg/kg   | 50    | <50         | <50          | <50          |            |              |
| NULL SUBSTITUTE  | 1 1 5 7 5 6 1 1 1 1 1   | 50    | <50         | <50          | <50          |            |              |
| Total +ve TRH C10-C36  | mg/kg   | 200   |             |              |              |            |              |
| Total +ve TRH C10-C36  TRH >C10-C16  TRH >C10-C16 less Naphthalene   | mg/kg<br>mg/kg  | 50    | <50         | <50          | <50          |            |              |
| Total +ve TRH C10-C36  TRH >C10-C16  TRH >C10-C16 less Naphthalene F2  | 11/2/20   |       |             | <50          | <50<br><100  |            |              |
| TRH C29-C36  Total +ve TRH C10-C36  TRH >C10-C16  TRH >C10-C16 less Naphthalene F2  TRH >C16-C34 (F3)  TRH >C34-C40 (F4) | mg/kg<br>mg/kg  | 50    | <50         |              |              |            |              |
| Total +ve TRH C10-C36  TRH >C10-C16  TRH >C10-C16 less Naphthalene F2  TRH >C16-C34 (F3)                                 | mg/kg   | 50    | <50<br><100 | <100         | <100         |            |              |

# Organochlorine Pesticides (Soil)

| Principal Color   Principal                   | PEH0810<br>TP17-0-<br>08/08/2 | -0.7 TP18-0.0-1 |
|---|-------------------------------|-----------------|
| Impact   I                  | 2007                          |                 |
| Part  | <0.1                          | ENG. PROPERTY.  |
| Institute   Inst                  | <0,1                          | PRO EUROPO      |
| ######################################  | <0.1                          | 10 <0,10        |
| Replace   Part  | <0.1                          | 10 <0.10        |
| Addin   | <0.1                          | 10 <0.10        |
| Perfection provide  | <0.1                          | 10 <0.10        |
| Part  | <0.1                          | 10 <0.10        |
| Control   Cont                  | <0.1                          | 10 <0.10        |
| Indicast   Image   Color   C                  | 0.12                          | 2 <0,10         |
| ##PODE mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10   | <0.1                          | 10 <0.10        |
| Deletrin   mg/kg  | <0.1                          | 10 <0.10        |
| Endrin  | <0,1                          | 10 <0,10        |
| ##PODD mg/kg 0.10 <0.10 <0.10 <0.10 <0.10   | <0.1                          | 10 0,22         |
| Endosulfan II mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10                | <0.1                          | 10 <0.10        |
| ##POPT mg/kg 0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10<br>##POPT mg/kg 0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,1               | <0.1                          | 10 <0.10        |
| ##PDPT mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10   | <0.1                          | 10 <0.10        |
| Endosulfan sulfate mg/kg 0,10 <0,10 <0,10 <0,10 <0,10 <0,10   | <0,1                          | 10 <0.10        |
| Bright   Methodychlor   mg/kg   | <0.1                          | 10 <0.10        |
| Methoxychlor         mg/kg         0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10   | <0,1                          | 10 <0,10        |
| Mirex         mg/kg         0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10 <th< td=""><td>&lt;0.1</td><td>10 &lt;0.10</td></th<>  | <0.1                          | 10 <0.10        |
| Total +ve OCP   | <0.1                          | 10 <0,10        |
| Part  | <0.1                          | 10 <0,10        |
| Pendent   Pend                  | 0.12                          | 2 0.22          |
| Your Reference         TP19-0-1.2         TP20-0-2.5         TP21-0.1-1.1         TP20-0.2         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         0.10   | 69.0                          | 0 72.4          |
| Your Reference         TP19-0-1.2         TP20-0-2.5         TP21-0.1-1.1         TP20-0.2         D86/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         08/08/2023         0.10  | PEH0810                       | 0-19 PEH0810-2  |
| Date Sampled         08/08/2023         08/08/2023         08/08/2023         08/08/2023         0           alpha-BHC         mg/kg         0.10         <0.10   | TP22-0-                       |                 |
| Hexachlorobenzene mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>beta-BHC gamma- mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>SHC delta-BHC mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Heptachlor mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Heptachlor epoxide mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Heptachlor epoxide mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>de-Chlordane mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>de-Chlordane mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Endosulfan I mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>4,4*-DDE mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Endosulfan I mg/kg 0,10 <0,10 <0,10 <0,10 <0,10<br>Endoin 4,4*- mg/kg 0,10 <0,10 <0,10 <0,10 <0,10 <0,10<br>Endoin 4,4*- mg/kg 0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0,10 <0, | 08/08/2                       |                 |
| Deta=BHC gamma=   mg/kg   0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.10   <0.                  | <0.1                          | 10 <0.10        |
| Deta-BHC gamma  | <0.1                          | 10 <0,10        |
| ### BHC delta-BHC    mg/kg  | <0.1                          | 1900 SHEED      |
| Heptachlor mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  Aldrin mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  Heptachlor epoxide mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  trans-Chlordane mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  de-Chlordane mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  Endosulfan I mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  4,4*-DDE mg/kg 0.10 <0.10 <0.10 <0.10 <0.10  Endosulfan I mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10  Endosulfan I mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10  Endosulfan I mg/kg 0.10 <0.10 <0.10 <0.10 <0.10 <0.10   | <0.1                          | PAU SONSKO      |
| Aldrin         mg/kg         0.10         <0,10         <0,10         <0,10           Heptachfor epoxide         mg/kg         0.10         <0,10   | <0.1                          | 2011 1079811    |
| Heptachlor epoxide         mg/kg         0,10         <0,10         <0,10         <0,10           trans-Chlordane         mg/kg         0,10         <0,10  | <0.1                          |                 |
| trans-Chlordane         mg/kg         0.10         <0.10         <0.10         <0.10           ds-Chlordane         mg/kg         0.10         <0.10  | <0.1                          |                 |
| ds-Chlordane         mg/kg         0.10         <0.10         <0.10         <0.10           Endosulfan I         mg/kg         0.10         <0.10   | <0.1                          |                 |
| Endosulfan I mg/kg 0.10 <0.10 <0.10 <0.10 <0.10<br>4,4*DDE mg/kg 0.10 <0.10 <0.10 <0.10 <0.10<br>Dieklrin mg/kg 0.10 <0.10 <0.10 <0.10 <0.10<br>Endrin 4,4*- mg/kg 0.10 0.23 0.28 <0.10<br>DDD mg/kg 0.10 <0.10 <0.10 <0.10   | <0.1                          |                 |
| 4,4-DDE         mg/kg         0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10         <0.10 <t< td=""><td>&lt;0.1</td><td></td></t<>   | <0.1                          |                 |
| Dielektrin         mg/kg         0.10         <0.10         <0.10         <0.10           Endrin 4,4-         mg/kg         0.10         0.23         0.28         <0.10  | <0.1                          |                 |
| Endrin 4,4- mg/kg 0.10 0.23 0.28 <0.10 DDD mg/kg 0.10 <0.10 <0.10 <0.10   |                               |                 |
| DDD mg/kg 0.10 <0.10 <0.10 <0.10  | <0.1                          |                 |
|   | 0.29                          |                 |
|   | <0.1                          |                 |
| Endosulfan II mg/kg 0.10 <0.10 <0.10 <0.10  | <0.1                          |                 |
| Endrin aldehyde mg/kg 0.10 <0.10 <0.10 <0.10  | <0.1                          |                 |
| 4,4-DDT mg/kg 0.10 <0.10 <0.10 <0.10  | <0.1                          | 10 <0.10        |

Your Reference:

# Organochlorine Pesticides (Soil)

| Envirolab ID<br>Your Reference<br>Date Sampled | Units | PQL  | PEH0810-12<br>TP19-0-1.2<br>08/08/2023 | PEH0810-14<br>TP20-0-2.5<br>08/08/2023 | PEH0810-18<br>TP21-0.1-1.1<br>08/08/2023 | PEH0810-19<br>TP22-0-0.6<br>08/08/2023 | PEH0810-21<br>TP23-0.0-0.4<br>08/08/2023 |
|--|-------|------|--|--|--|--|--|
| Endosulfan sulfate                             | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    | <0.10                                  | <0.10                                    |
| Endrin ketone                                  | mg/kg | 0,10 | <0,10                                  | <0.10                                  | <0.10                                    | <0,10                                  | <0,10                                    |
| Methoxychlor                                   | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    | <0.10                                  | <0.10                                    |
| Mirex  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    | <0.10                                  | <0.10                                    |
| Total +ve OCP                                  | mg/kg | 0.10 | 0,23                                   | 0.28                                   | <0.10                                    | 0,29                                   | <0.10                                    |
| Surrogate 2-Chlorophenol-D4                    | %     |      | 74.2                                   | 72.4                                   | 72.4                                     | 70.2                                   | 69.4                                     |
| Envirolab ID                                   | Units | PQL  | PEH0810-23                             | PEH0810-26                             | PEH0810-27                               |  |  |
| Your Reference                                 |       |      | TP24-0-1.4                             | TP25-0-0.3                             | TP30-0-0.1                               |  |  |
| Date Sampled                                   |       |      | 08/08/2023                             | 08/08/2023                             | 08/08/2023                               |  |  |
| alpha-BHC                                      | mg/kg | 0.10 | <0,10                                  | <0.10                                  | <0,10                                    |  |  |
| Herachlorobenzene                              | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| beta-BHC gamma-                                | mg/kg | 0,10 | <0,10                                  | <0,10                                  | <0.10                                    |  |  |
| BHC delta-BHC                                  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Heptachlor                                     | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| <b>Al</b> drin                                 | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Heptachlor epoxide                             | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| trans=Chjordane                                | mg/kg | 0.10 | <0,10                                  | <0.10                                  | <0.10                                    |  |  |
| cis-Chlordane                                  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Endosulfan I                                   | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| 4,4'-DDE                                       | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Dieldrin                                       | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Endrin   | mg/kg | 0.10 | 0.15                                   | <0.10                                  | <0.10                                    |  |  |
| 4,4°-DDD                                       | mg/kg | 0.10 | <0.10                                  | <0,10                                  | <0.10                                    |  |  |
| Endosulfan II                                  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Endrin alldehyde                               | mg/kg | 0.10 | <0,10                                  | <0.10                                  | <0.10                                    |  |  |
| 4,4°-DDT                                       | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Endosulfan sulfate                             | mg/kg | 0,10 | <0,10                                  | <0,10                                  | <0,10                                    |  |  |
| Endrin ketone                                  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Methoxychlor                                   | mg/kg | 0,10 | <0,10                                  | <0,10                                  | <0,10                                    |  |  |
| Mirex  | mg/kg | 0.10 | <0,10                                  | <0,10                                  | <0.10                                    |  |  |
| Total +ve OCP                                  | mg/kg | 0.10 | <0.10                                  | <0.10                                  | <0.10                                    |  |  |
| Surrogate 2-Chlorophenol-D4                    | mg/kg | 0.10 | 0,15                                   | <0.10                                  | <0.10                                    |  |  |
|  | 96    |      | 68.2                                   |  | 64.1                                     |  |  |

## Acid Extractable Metals (Soil)

| Envirolab ID<br>Your Réference<br>Date Sampled | Units | PQL  | PEH0810-01<br>TP12-0-3.0<br>08/08/2023 | PEH0810-03<br>TP13-0.0-0.8<br>08/08/2023 | PEH0810-06<br>TP16-0-0.8<br>08/08/2023 | PEH0810-08<br>TP17-0-0.7<br>08/08/2023 | PEH0810-09<br>TP17-0.7-1<br>08/08/2023 |
|--|-------|------|--|--|--|--|--|
| Arsenic  | mg/kg | 4.0  | <4.0                                   | <4.0                                     | <4.0                                   | <4.0                                   | [NA]                                   |
| Cadmium  | mg/kg | 0.40 | <0,40                                  | <0.40                                    | <0.40                                  | <0,40                                  | [746]                                  |
| Chromium                                       | mg/kg | 1.0  | 8.3                                    | 19                                       | 14                                     | 5.9                                    | [MA]                                   |
| Copper   | mg/kg | 1.0  | 9.2                                    | 16                                       | 7.8                                    | 6.1                                    | [MA]                                   |
| Mercury  | mg/kg | 0.10 | <0.10                                  | <0.10                                    | <0.10                                  | <0.10                                  | [NA]                                   |
| Nickel   | mg/kg | 1.0  | 2.3                                    | 7.5                                      | 1.3                                    | 2.0                                    | [NA]                                   |
| Lead   | mg/kg | 1.0  | 20                                     | 29                                       | 9.9                                    | 110                                    | [A41]                                  |
| Zinc   | mg/kg | 1.0  | 82                                     | 59                                       | 42                                     | 340                                    | 1.4                                    |
| Envirolab ID                                   | Units | PQL  | PEH0810-10                             | PEH0810-11                               | PEH0810-12                             | PEH0810-14                             | PEH0810-18                             |
| Your Reference                                 |       |      | TP18-0.0-1.2                           | TP18-1.2-1.7                             | TP19-0-1.2                             | TP20-0-2.5                             | TP21-0.1-1.                            |
| Date Sampled                                   |       |      | 08/08/2023                             | 08/08/2023                               | 08/08/2023                             | 08/08/2023                             | 08/08/2023                             |
| Arsenic  | mg/kg | 4.0  | <4.0                                   | [NA]                                     | <4.0                                   | <4.0                                   | <4.0                                   |
| Cadmium  | mg/kg | 0.40 | <0.40                                  | [NA]                                     | < 0.40                                 | < 0.40                                 | <0.40                                  |
| Chromium                                       | mg/kg | 1.0  | 7.5                                    | [[NA]]                                   | 9.8                                    | 8.4                                    | 19                                     |
| Copper   | mg/kg | 1.0  | 5.1                                    | [NA]                                     | 6.5                                    | 7.5                                    | 10                                     |
| Mercury  | mg/kg | 0.10 | <0.10                                  | [NA]                                     | <0.10                                  | <0.10                                  | <0.10                                  |
| Nicke <b>l</b>                                 | mg/kg | 1.0  | 2.4                                    | [NA]                                     | 3.3                                    | 1,6                                    | 13                                     |
| Lead   | mg/kg | 1.0  | 78                                     | [NA]                                     | 22                                     | 19                                     | 33                                     |
| Zinc   | mg/kg | 1.0  | 120                                    |  | 47                                     | 84                                     | 3.3                                    |
| Envirolab ID                                   | Units | PQL  | PEH0810-19                             | PEH0810-21                               | PEH0810-23                             | PEH0810-26                             | PEH0810-22                             |
| Your Reference                                 |       |      | TP22-0-0.6                             | TP23-0.0-0.4                             | TP24-0-1.4                             | TP25-0-0.3                             | TP30-0-0.1                             |
| Date Sampled                                   |       |      | 08/08/2023                             | 08/08/2023                               | 08/08/2023                             | 08/08/2023                             | 08/08/2023                             |
| Arsenic  | mg/kg | 4.0  | <4.0                                   | <4.0                                     | <4.0                                   | <4.0                                   | 46                                     |
| Cadrrium                                       | mg/kg | 0.40 | <0,40                                  | <0.40                                    | <0,40                                  | <0,40                                  | <0,40                                  |
| Chromium                                       | mg/kg | 1.0  | 40                                     | 15                                       | 9.1                                    | 9.5                                    | 52                                     |
| Copper   | mg/kg | 1.0  | 15                                     | 9.0                                      | 11                                     | 3.3                                    | 44                                     |
| Mercury  | mg/kg | 0.10 | <0,10                                  | <0.10                                    | <0.10                                  | <0,10                                  | <0.10                                  |
| Nickel   | mg/kg | 1.0  | 3.9                                    | 7.5                                      | 2.8                                    | 2.7                                    | 3.0                                    |
| Lead   | mg/kg | 1.0  | 88                                     | 34                                       | 16                                     | 7.9                                    | 12                                     |
| Zinc   | mg/kg | 1.0  | 84                                     | 25                                       | 55                                     | 8.0                                    | 43                                     |

# Exchangeable Cations (Soil)

| Envirolab ID                   | Units    | PQL  | PEH0810-28 |  |
|--------------------------------|----------|------|------------|--|
| Your Reference                 |          | 70   | TP31-0-0.5 |  |
| Date Sampled                   |          |      | 08/08/2023 |  |
| Calcium                        | meq/100g | 0.10 | 0.68       |  |
| Potassium                      | meg/100g | 0.10 | <0,10      |  |
| Magnesium                      | meg/100g | 0.10 | 1.3        |  |
| Sodium                         | meg/100g | 0.10 | 0.40       |  |
| Cation Exchange Capacity (CEC) | mea/100g | 0.10 | 2.4        |  |
|                                |          |      |            |  |

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# Inorganics - General Physical Parameters (Soil)

| pH units                                 | 20     |  |
|--|--------|--|
| * 1 To 1 T | 5.1    |  |
| 4.000.000000                             | - 1.77 |  |
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# **Inorganics - Moisture (Soil)**

| Envirolab ID   | Units | PQL  | PEH0810-01   | PEH0810-03   | PEH0810-06 | PEH0810-08 | PEH0810-09   |
|----------------|-------|------|--------------|--------------|------------|------------|--------------|
| Your Reference |       |      | TP12-0-3.0   | TP13-0.0-0.8 | TP16-0-0.8 | TP17-0-0.7 | TP17-0.7-1.2 |
| Date Sampled   |       |      | 08/08/2023   | 08/08/2023   | 08/08/2023 | 08/08/2023 | 08/08/2023   |
| Moisture       | %     | 0.10 | 6.<br>9      | 1<br>3       | 6.<br>9    | 10         | 16           |
| Envirolab ID   | Units | PQL  | PEH0810-10   | PEH0810-11   | PEH0810-12 | PEH0810-14 | PEH0810-18   |
| Your Reference |       |      | TP18-0.0-1.2 | TP18-1.2-1.7 | TP19-0-1.2 | TP20-0-2.5 | TP21-0.1-1.1 |
| Date Sampled   |       |      | 08/08/2023   | 08/08/2023   | 08/08/2023 | 08/08/2023 | 08/08/2023   |
| Moisture       | %     | 0.10 |              | 1<br>5       |            | 9.1        | 16           |
| Envirolab ID   | Units | PQL  | PEH0810-19   | PEH0810-21   | PEH0810-23 | PEH0810-26 | PEH0810-27   |
| Your Reference |       |      | TP22-0-0.6   | TP23-0.0-0.4 | TP24-0-1.4 | TP25-0-0.3 | TP30-0-0.1   |
| Date Sampled   |       |      | 08/08/2023   | 08/08/2023   | 08/08/2023 | 08/08/2023 | 08/08/2023   |
| Moisture       | %     | 0.10 | 1<br>8       | 1<br>9       | 1<br>2     | 12         | 31           |

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## **Method Summary**

| Method ID       | Methodology Summary  |
|-----------------|--|
| INORG-001       | pH - Measured using pH meter and electrode based on APHA latest edition, Method 4500-H+. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the APHA recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 ( AS1289.4.3.1), pH is measured in the extract. |
| INORG-008       | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.  |
| METALS-020      | Determination of various metals by ICP-OES.  |
| METALS-020_008A | Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.   |
| METALS-021      | Determination of Mercury by Cold Vapour AAS.   |
| ORG-020         | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).            |
| ORG-022_OC      | Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.  |
| ORG-023_F1_TOT  | Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.             |

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#### **Result Definitions**

| Identifier | Description   |
|------------|---|
| NR         | Not reported  |
| NEPM       | National Environment Protection Measure   |
| NS         | Not specified   |
| LCS        | Laboratory Control Sample   |
| RPD        | Relative Percent Difference   |
| >          | Greater than  |
| <          | Less than   |
| PQL        | Practical Quantitation Limit  |
| INS        | Insufficient sample for this test   |
| -NA        | Test not required   |
| NT         | Not tested  |
| DOL        | Samples rejected due to particulate overload (air filters only)   |
| RFD        | Samples rejected due to filter damage (air filters only)  |
| RUD        | Samples rejected due to uneven deposition (air filters only)  |
| ##         | Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments |

## **Quality Control Definitions**

#### Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

#### Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

## LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

## Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

## **Duplicate**

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

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## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

#### Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10\*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of TLVs and BEIs Threshold Limits by ACGIH.

Air volume measurements are not covered by Envirolab's NATA accreditation.

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# **Data Quality Assessment Summary PEH0810**

| lient Details  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| Client   | Aurora Environmental (P                                | Perth) Pty Ltd   |  |  |  |  |  |  |  |
| Your Reference   | DVW2020-005_UF7 (MSG2023_003)                          |  |  |  |  |  |  |  |  |
| Date Issued  | 21/09/2023   |  |  |  |  |  |  |  |  |
| ecommended Holding Time Cor<br>Recommended holding time exceedances exist  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Quality Control and QC Frequence   | 253/   | Details  |  |  |  |  |  |  |  |
| QC Туре  | Compliant  | Details  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Blank  | Yes  | No Outliers  |  |  |  |  |  |  |  |
| Blank  | Yes  | No Outliers  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| LCS<br>Duplicates  | Yes  | No Outliers  |  |  |  |  |  |  |  |
| ıcs  | Yes<br>No  | No Outliers  Duplicate Outliers Exist - See detailed list below  |  |  |  |  |  |  |  |
| LCS Duplicates Matrix Spike  | Yes<br>No<br>Yes                                       | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers   |  |  |  |  |  |  |  |
| Duplicates  Matrix Spike  Surrogates / Extracted Internal Standards  QC Frequency  Surrogates/Extracted Internal Standards, Duplic   | Yes  Yes  Yes  Yes  Yes  ates and/or Matrix Spikes are | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers  No Outliers  |  |  |  |  |  |  |  |
| Duplicates  Matrix Spike  Surrogates / Extracted Internal Standards  QC Frequency  Surrogates/Extracted Internal Standards, Duplication of Matrices, Therefore, said QC measures are   | Yes  Yes  Yes  Yes  Yes  ates and/or Matrix Spikes are | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers  No Outliers  No Outliers  not always relevant/applicable to certain analyses |  |  |  |  |  |  |  |
| Duplicates  Matrix Spike  Surrogates / Extracted Internal Standards  QC Frequency  Surrogates/Extracted Internal Standards, Duplication of the property of the | Yes  Yes  Yes  Yes  Yes  ates and/or Matrix Spikes are | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers  No Outliers  No Outliers  not always relevant/applicable to certain analyses |  |  |  |  |  |  |  |
| Duplicates  Matrix Spike  Surrogates / Extracted Internal Standards  QC Frequency  Surrogates/Extracted Internal Standards, Duplication of Matrices, Therefore, said QC measures are   | Yes  Yes  Yes  Yes  Yes  ates and/or Matrix Spikes are | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers  No Outliers  No Outliers  not always relevant/applicable to certain analyses |  |  |  |  |  |  |  |
| Duplicates  Matrix Spike  Surrogates / Extracted Internal Standards  QC Frequency  Surrogates/Extracted Internal Standards, Duplication of Matrices, Therefore, said QC measures are   | Yes  Yes  Yes  Yes  Yes  ates and/or Matrix Spikes are | No Outliers  Duplicate Outliers Exist - See detailed list below  No Outliers  No Outliers  No Outliers  not always relevant/applicable to certain analyses |  |  |  |  |  |  |  |

# **Data Quality Assessment Summary PEH0810**

| Decommended | Holding | Time Compliance   |
|-------------|---------|-------------------|
| Recommenueu | nojuing | i line compliance |

| Analysis                    | Sample Number(s)   | Date Sampled | Date Extracted | Date Analysed | Compliant |
|-----------------------------|--|--------------|----------------|---------------|-----------|
| vtrh&mbtexn   Soil          | 1, 3, 6, 8, 10, 12, 14, 18-19,<br>21, 23, 26-27          | 08/08/2023   | 18/08/2023     | 22/08/2023    | Yes       |
| sTRH   Soil                 | 1, 3, 6, 8, 10, 12, 14, 18-19,<br>21, 23, 26-27          | 08/08/2023   | 18/08/2023     | 20/08/2023    | Yes       |
| OCP   Soil                  | 1, 3, 6, 8, 10, 12, 14, 18 <b>-19</b> ,<br>21, 23, 26-27 | 08/08/2023   | 18/08/2023     | 20/08/2023    | Yes       |
| Metals   Soll               | 1, 3, 6, 8, 10, 12, 14, 18-19,<br>21, 23, 26-27          | 08/08/2023   | 18/08/2023     | 22/08/2023    | Yes       |
|                             | 9, 11  | 08/08/2023   | 20/09/2023     | 21/09/2023    | Yes       |
| Metals-Fig   Soil           | 1, 3, 6, 8, 10, 12, 14, 18-19,<br>21, 23, 26-27          | 08/08/2023   | 18/08/2023     | 22/08/2023    | YES       |
| CEC   Soil                  | 28   | 08/08/2023   | 21/09/2023     | 21/09/2023    | Yes       |
| Exchangeable Cations   Soil | 28   | 08/08/2023   | 21/09/2023     | 21/09/2023    | Yes       |
| pH   Soil                   | 28   | 08/08/2023   | 20/09/2023     | 21/09/2023    | No        |
| Moisture   Soil             | 1, 3, 6, 8, 10, 12, 14, 18-19,<br>21, 23, 26-27          | 08/08/2023   | 18/08/2023     | 18/08/2023    | Yes       |
|                             | 9, 11  | 08/08/2023   | 20/09/2023     | 21/09/2023    | No        |

## **Outliers: Duplicates**

## METALS-020 Acid Extractable Metals (Soil) Batch BEH2059

| Sample ID  | Duplicate ID | Analyte  | % Limits | RPD     |  |
|------------|--------------|----------|----------|---------|--|
| PEH0810-01 | DUP3         | Chromium | 40,00    | 46.1[1] |  |

## ORG-020 | Semi-volatile TRH (Soil) | Batch BEH2063

## ORG-023\_F1\_TOT | Volatile TRH and BTEX (Soil) | Batch BEH2061

|                                     |       |      |       | DUP1                 | DUP2                 | LCS % | Spike %    |
|-------------------------------------|-------|------|-------|----------------------|----------------------|-------|------------|
| Analyte                             | Units | PQL  | Blank | PEH0810-01           | PEH0810-23           |       | PEH0810-03 |
|                                     |       |      |       | Samp   QC   RPD %    | Samp   QC   RPD %    |       |            |
| TRH C6-C9                           | mg/kg | 25   | <25   | <25   <25   [NA]     | <25   <25   [NA]     | 92.1  | 96.7       |
| TRH C6-C10                          | mg/kg | 25   | <25   | <25 <25 [NA]         | <25   <25   [NA]     | 88,5  | 93.3       |
| TRH C6-C10 less BTEX (F1)           | mg/kg | 25   | <25   | <25 <25 [NA]         | <25   <25   [NA]     | [NA]  | [NA]       |
| Methyl tert butyl ether (MTBE)      | mg/kg | 0.50 | <0.50 |                      |                      | [NA]  | [NA]       |
| Benzene                             | mg/kg | 0.20 | <0.20 | <0.20   <0.20   [NA] | <0.20   <0.20   [NA] | 99.0  | 105        |
| Toluene                             | mg/kg | 0.50 | <0.50 | <0.50 <0.50 [NA]     | <0.50   <0.50   [NA] | 93.7  | 101        |
| Ethylbenzene                        | mg/kg | 1.0  | <1.0  | <1.0   <1.0   [NA]   | <1.0   <1.0   [NA]   | 101   | 111        |
| meta+para Xylene                    | mg/kg | 2.0  | <2.0  | <2.0 <2.0 [NA]       | <2.0   <2.0   [NA]   | 93.9  | 102        |
| ortho-Xylene                        | mg/kg | 1.0  | <1.0  | <1.0   <1.0   [NA]   | <1.0   <1.0   [NA]   | 98.9  | 108        |
| Total Xylene                        | mg/kg | 3.0  | <3.0  | <3.0   <3.0   [NA]   | <3.0   <3.0   [NA]   | [NA]  | [NA]       |
| Naphthalene (value used in F2 calc) | mg/kg | 1.0  | <1.0  | <1.0   <1.0   [NA]   | <1.0   <1.0   [NA]   | [NA]  | [NA]       |
| Surrogate aaa-Trifluorotoluene      | %     |      | 116   | 105   102            | 124   119            | 103   | 101        |

## ORG-020 | Semi-volatile TRH (Soil) | Batch BEH2063

| Analyte               | Units | PQL | Blank | DUP1 BEH2063-DUP1# Samp   QC   RPD % | <b>DUP2</b> PEH0810-21 Samp   QC   RPD % | LCS % | <b>Spike %</b><br>PEH0810-01 |
|-----------------------|-------|-----|-------|--------------------------------------|--|-------|------------------------------|
| TRH C10-C14           | mg/kg | 50  | <50   | <50 <50 [NA]                         | <50   <50   [NA]                         | 85.6  | 74.4                         |
| TRH C15-C28           | mg/kg | 100 | <100  | <100   <100   [NA]                   | <100   <100   [NA]                       | 89.9  | 81.0                         |
| TRH C29-C36           | mg/kg | 100 | <100  | <100   <100   [NA]                   | <100   <100   [NA] [1]                   | 91.5  | 87.9                         |
| TRH >C10-C16          | mg/kg | 50  | <50   | <50   <50   [NA]                     | <50   <50   [NA]                         | 84.8  | 73.9                         |
| TRH >C16-C34 (F3)     | mg/kg | 100 | <100  | <100   <100   [NA]                   | <100   <100   [NA]                       | 80.6  | 73.3                         |
| TRH >C34-C40 (F4)     | mg/kg | 100 | <100  | <100   <100   [NA]                   | <100   <100   200 [1]                    | 97.3  | 90.0                         |
| Surrogate o-Terphenyl | %     |     | 90.2  | 93.8   93.9                          | 97.1   95.8                              | 97.2  | 89.1                         |

<sup>#</sup> The QC reported was not specifically part of this workorder but formed part of the QC process batch.

## ORG-022\_OC | Organochlorine Pesticides (Soil) | Batch BEH2063

| Analyte                     | Units | PQL  | Blank | DUP1<br>BEH2063-DUP1#<br>Samp   QC   RPD % | <b>DUP2</b> PEH0810-21 Samp   QC   RPD % | LCS % | <b>Spike %</b> PEH0810-01 |
|-----------------------------|-------|------|-------|--|--|-------|---------------------------|
| alpha-BHC                   | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 80.1  | <i>7</i> 7.9              |
| Hexachlorobenzene           | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10 <0.10 [NA]                         | [NA]  | [NA]                      |
| beta-BHC                    | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10 <0.10 [NA]                         | 72,3  | 69.8                      |
| gamma-BHC                   | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| de <b>l</b> ta-BHC          | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Heptachlor                  | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 92.8  | 75.6                      |
| Aldrin                      | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 88.8  | 82.4                      |
| Heptachlor epoxide          | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 77.1  | 76.9                      |
| trans-Chlordane             | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10 <0.10 [NA]                         | [NA]  | [NA]                      |
| cis-Chlordane               | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Endosulfan I                | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| 4,4'-DDE                    | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 77.4  | 75.3                      |
| Dieldrin                    | mg/kg | 0,10 | <0.10 | 0.111   0.103   7.56                       | <0.10   <0.10   [NA]                     | 74,6  | 75.2                      |
| Endrin                      | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | 74.1  | 73.1                      |
| 4,4'-DDD                    | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | 82,2  | 76.9                      |
| Endosulfan II               | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Endrin aldehyde             | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| 4,4'-DDT                    | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Endosulfan sulfate          | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | 62,4  | 62,4                      |
| Endrin ketone               | mg/kg | 0.10 | <0.10 | <0.10   <0.10   [NA]                       | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Methoxychlor                | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Mirex                       | mg/kg | 0.10 | <0.10 | <0.10 <0.10 [NA]                           | <0.10   <0.10   [NA]                     | [NA]  | [NA]                      |
| Surrogate 2-Chlorophenol-D4 | %     |      | 80.4  | 77.6   79.0                                | 69.4   68.5                              | 81.2  | 74.3                      |

<sup>#</sup> The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Your Reference: DVW2020-005
Revision: R-01 Certificate of Ai

# METALS-020 | Acid Extractable Metals (Soil) | Batch BEH2059

|  |  | Units  | P   | QL  | Blank  | PEH0810-01<br>Semp LOC L 8PD %   | PEHOS  |  | LCS   | S %  | Spike %<br>PEH0810-03 | į        |
|--|--|--|---|---|--|--|--|--|-------|--|-----------------------|----------|
|  |  | me/kg  |   | 4.0   | <4.0   |  |  |  | 39    | 96.5   | 103                   |          |
|  |  | 100000000000000000000000000000000000000  |   |   |  | VIV 17 (5)   | 0.5  | 지기가 가  |       |  |                       |          |
|  |  |  |   |   |  | 생겨 보통 시간 경기 등에 어떻게 다 다 하는데 다 다 다 하는데 다 되었다.  | 5077   |  |       |  |                       |          |
|  |  | 17.45  |   |   |  |  |  | 2 D. O. S. |       |  |                       |          |
|  |  |  |   |   |  | 00720 - 00730  | 100  | 370  |       |  |                       |          |
|  |  |  |   |   |  |  |  |  |       |  |                       |          |
|  |  | mg/kg  |   |   | <0.10  | <0.10 <0.10 [NA]   | ** ASSOCIATION   |  |       |  | 98.1                  |          |
|  |  | mg/kg  | 1   | .0  | <1.0   | 2.31   1.57   38.1   |  | 10   | 9     | 8.8  | 89.4                  |          |
|  |  | mg/kg  | 3   | .0  | <1.0   | 81.7   103   23.4  | 54.8 51  | 1.6 6.11                                       | 9     | 9.9  | 104                   |          |
|  |  | Units  | p   | ĄL  | Blank  | DUP3<br>PEH0810-01<br>Samp   QC   RPD %  | PEHOS  | 0810-23  | LC    | 5 %  |                       |          |
|  | -  | mg/kg  | -   | 1   |  | <4.0   <4.0   (NA)   | <4.0   <   | 4.0   [NA]                                     | - 1   | (set)  |                       |          |
|  |  | mg/kg  | c   | 0.4   |  | <0,40 <0,40 [NA]   | <0,40  | 0.40 [NA]                                      | 1     | NAT.   |                       |          |
|  |  | mg/kg  | 1   | 1   |  | 8,32 13,3 46,1 [1]   | 9.11 8   | 45 7.58  | 7     | NAT:   |                       |          |
|  |  |  |   |   |  |  | 15.4   | 10.5   |       |  |                       |          |
|  |  |  |   |   |  |  |  |  |       |  |                       |          |
|  |  |  |   |   |  |  | 23 P. C.   |  |       |  |                       |          |
|  |  |  |   |   |  |  | 1002 - 1000  | 200  |       | _  |                       | _        |
|  | With the Charles and Williams  | mg/kg  |   | 1   |  |  | AUT  | thra?  |       |  |                       |          |
|  |  | U. S. O.   |   | I   |  | 81.7   68.2   18.1   | 2 8 2  | A Chinental                                    |       |  | 40.0                  |          |
|  |  |  |   |   | ON I Detail  |  | Results Required   | Date:  |       | Sheer 2  | Of I                  |          |
| Email results to:  | Extracta   | ble Me   | etals (   | Sol   | info@aurora  | A BEI2154<br>environmental.com.au  |  |  |       |  |                       |          |
| Alban Capacita   |  | A. Care  |   |   |  |  |  |  | LC    | s 0/a  | Spike %               |          |
|  |  | Units  | P   | QL  | Blank  | CELEGRO CELEGRO  | 0.000  |  | 120   |  | PEH0810-11            |          |
| COMMENTS:  |  | mg/kg  | 1   | 0   | <1.0   | 1.37   1.19   14.1 [1]   |  | ž  | ATEXN | 110  | 105<br>Not            | rtes/LOF |
| 5-020 008  | A   Exchar   | ngeabl   | e Cati  | ion   | s (Soil)   | Ratch BEI2241  | ò  | No.  | 3     | £  | 7,550                 | 00000    |
|  |  |  | type  |   | Date   | container  | (  | 65   | X     |  |                       |          |
| 1  | TP12-0-3.0   |  | Soil  |   | 8-Aug-23   | gyP1   | ×  | x  | × LC  | 5 %  | Spike %               |          |
| 2  | TP12-3.0-3.5   | Units  |   | QL  | 8-A <b>Bjank</b>   | PEH0810-28   |  |  |       | V  | PEH0810-28            |          |
| 3  | Tp13-0.0-0.8   | 11000  |   |   | 8-Aug-23   | 721  | ×  | x  | ×     |  | ***                   |          |
| 4  |  |  |   | _   |  |  | <del></del>  | +  |       |  |                       |          |
|  |  |  | Soil  |   | R-Aup-23   |  | -  | + - +  | 40.07 | 117.   | 117                   |          |
| 7  | -  | mq/100g  | Soil 0.   | .10   | R-A2E-23   | 1.34 1.26 6.15   |  | + +  | *     | 08   | 109                   |          |
| 8  |  | meq/100g   |   | .10   | 8-A59-23   | 0.400 8,350 13.3   | ×  | x  | × 1   | 110  | 109                   |          |
|  |  |  |   | _   | 8-A40:36   | Jar  |  |  | 1     | NAT  | INAL                  |          |
| D  | TP18-0.0-1.2   | 9  | Soil  | State of the  | 8-Aug-23   | Jar  | ×  | x  | ×     | 17.5   | 10,17                 |          |
| nos itnor  | TP18-1.2-1.7   | - nora   | Solve   |   | 8-Aug-23   | tore (Soil)   Batch  | DET2176  |  |       |  |                       |          |
|  |  | enc  |   | The   |  | 22.77  | DELGE  | ×  | *     |  |                       |          |
|  | The second second second second second   |  | Soil  |   |  | dűpi   | <del></del>  | -  | LO    | \$ %   | _                     |          |
| 14   |  | Units  |   | ·QL   | Blank  | PEN (0810-28   | ×  | x  | ×     |  | +                     |          |
|  | The state of the s | Emmore 1   |   | -   |  |  |  | 1  |       |  | +                     |          |
|  | TP20A-3-3.2  | pH units   | Soil  | -   | 8-Aug-23   | 5,1  5,0   3,18  |  |  | - 3   | 01   | 1                     |          |
| 18   | TP21-0.1-1.1   |  | Soil  |   | 8-Aug-23   | Jar  | ×  | x  | ×     |  |                       |          |
| -008 Inor  | ganics e.d   | distur   | re:(Soi   | <b>ID</b>   | Batch Bi   | EH2056 Jar   | х  | x  | ×     |  |                       |          |
| 20   | TP22-0.6-1.1   | -  | Soil  |   | 8-Aug-23   | Jar  |  |  |       |  |                       |          |
| 21   | TP23-0.0-0.4   | - Italian  | Soil  |   | 8-Aug-23   |  |  |  | x LLS | <b>5</b> %   |                       |          |
|  | TP23-0.4-0.7   | Units  |   | QL  |  |  | 110  | 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1        | 401   |  | +                     | _        |
|  |  | 94   |   |   |  |  |  |  | ×     | MAT  | +                     |          |
|  |  | 79   |   | **  |  |  | 10.51  | 10.5   | _     | (A)  | + 1                   |          |
| and the second s |  | vorkorder b  | AND DESCRIPTION OF THE PERSON NAMED IN  | part o  | AT A SECURIT OF STREET STREET, | NAME OF TAXABLE PARTY O | ×  | x  | ×     |  | -                     |          |
| 27   | TP30-0-0.1   |  | Soil  |   | 8-Aug-23   | Jar Jar  | ×  | x  | ×     |  | +                     |          |
|  |  | leistu   |   | il  |  | F12452 br  |  |  |       |  |                       |          |
| Relinquished by:   | TP5-0,1-0.5  |  | Soll  | 1   |  | Date   | Received by:   |  | H-, c | 7.06   | Date: \1_             | ~ 7      |
|  | Upon Receipt:  | Units  | ¥   | ani.  |  | DUFT   | Mesetter 51  |  | LL    | 5 %  | 1/0~                  | 20-1     |
|  |  |  | /Projects   | 11000   | Didin  | Samp   QGII-899) Werston 2   |  |  |       | PagZ/3   |                       |          |
| Authorised By: Mari  | the contracted   | %  | D.  | 0.1   |  | 15.8 15.6 1.34   |  |  | 4     | NAL  |                       |          |
| E T HOLE   | COMMENTS:  COMENTS:  COMMENTS:  C | T: (08) 9227 2600  Sob D: Over2020 005 UF7 acta  Email results to: Imm. 5:  COMMENTS:  C | mg/kg | mg/kg 0, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 0, mg/kg 1, mg/kg 0, mg/kg 1, mg/kg 0, mg/kg mg/kg 2, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 4, mg/kg 4, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 2, mg/kg 3, mg/kg 3, mg/kg 4, mg/kg 4, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 2, mg/kg 3, mg/kg 4, mg/kg 1, mg/kg 2, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 4, mg/kg 5, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 3, mg/kg 4, mg/kg 5, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 1, mg/kg 1, mg/kg 1, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 7, mg/kg 7, mg/kg 6, mg/kg 6, mg/kg 6, mg/kg 7, mg/kg 7, mg/kg 7, mg/kg 7, mg/kg 6, mg/kg 7, mg/kg | mg/kg  | mg/kg  | Units   PQL   Blank   PEH(810-01   Semp   Cel   80 w   Semp   Ce | Units  | Units | Units   PQL   Blank   PFH08IDOL   PFH08ID-23   Same (oct 90 % Sa | Units                 | Units    |

TP4-1-1-16 " " Your Reference020-005\_DSI 0A/W3030-005\_UF7 (MSG2023\_003)

Revision: R-01 Certificate of Analysis Generated: 21/09/2023 20:45:26

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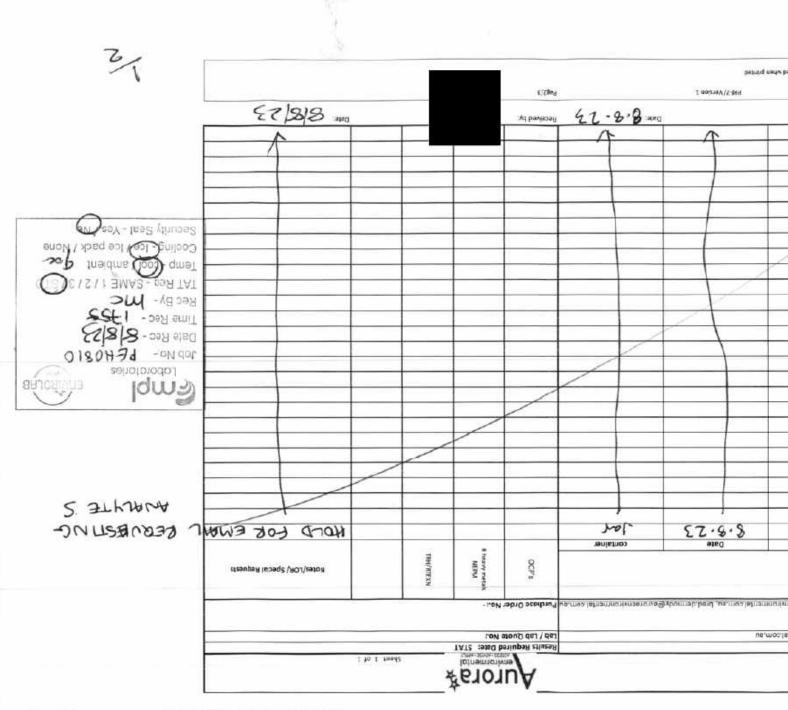
## **QC Comments**

Identifier

Description

[1]

Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10\*PQL, the RPD acceptance criteria increases exponentially.



Your Reference: Revision: R-01 DVW2020-005\_UF7 (MSG2023\_003)

Certificate of Analysis Generated: 21/09/2023 20:45:26

| The first is separated to the state of the s | Job ID: MSG-2023-303                                   | F: (08) 9227 1699   |   |                            | enwiros                                    | wentel    |           | Sheet 1 of 1                |            |
|--|--|---|---|----------------------------|--|-----------|-----------|-----------------------------|------------|
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